Newfoundland
1930 May 28 – September 21
1937 June 16 – September 11

R. B. Kennedy

R B
Kennedy
(9)

R B Family (9)

5-25-30 Empetrum nigrum L. ♀ 5 ♂, BUB # 479
5 ♂ fls. Cundi Vidi, St John's Nfld.

M. 226 = 444
6-2-30 Salix.
♂ fl coll. by Allan McIsaac near Crabbe's Station.
Aments lateral (terminal v. upper ones usually not developed) on short 3/4 in peduncles with 2-3 (2nd) l.f.y. bracts. Basal bracts glabrous above, long white hairy on edges & beneath. Rachis pubescent. Scales lanceolate-oblong dark purplish-brown to below middle, very hairy with long white straight hairs. Pedicels at this stage 1 3/4 mm (more than twice as long as yellow gland.) Capsule (at this stage) 4-5 mm, thickly appressed pubescent. Style short but distinct. Stigma lobes deeply cleft. Aments (at this stage) 1 1/4 - 1 1/2 in long. Fl-bud scales dark, 9 mm long with 2 very distinct lateral nerves (& keels). Young twigs very few fl-buds just opening glabrous stout, silky on edges & back, prominently glandular-lenticellate (red) leafy. Twigs shining olive-drab to brownish. Pres S. discolor Muhl. ♀ 325, BUB I 599

P2

A 237 = 447

6-4-30 Salix

♂ fls. Rt bank Middle Barachois Brook, meadow above mouth. Shrub 7 ft high by fence but 5 feet. Aments lateral on oldest ½ in or less peduncles bearing small lvs (usually 3). Peduncles marked by long white hairy. There bracts lance-oblong otherwise like young lvs. Rachis just below infl can see aborted part. Scales ovate, ¾ mm long dark brown tipped to middle with long white wavey hairs. Stamens 2, filaments glabrous Anthers red at first, then yellow with red tips Filaments about 5 mm long in immature. Fl bud scales about as in 6-2-30. Lvs further developed than 6-2-80 (i.e ± ½ in, elliptic to ovate, acute (not at all acuminate) narrowed to base, serrate with long gland tipped teeth, long white hairy on back at first but quickly glabrous. Stipules with gland tipped teeth. Old twigs brown & distinctly pubescent (A tree which looked like this near little bridge to Corbin's wood road at least 30 ft high with rough gray bark.) Aments to 2 in long. Silky white hairs at base of the new twigs bearing young lvs. conspicuous. (Note made 6-8-30 A was prob from thicket at Corbin wood road bridge just up stream from bridge at S-E corner of fence.

* See 8-10-30. All willows in this group of the same

Pz.

D. 228

6-4-30 Salix

Same as A. Much taller shrub near Corliss wood-road bridge (Note made 6-8-30 B was part from logan shortly down stream from Corliss wood-road bridge

AA Pz. + Pz.

6-4-30 Salix

or flo (Note made 6-8-30 this is part shrub in meadow near fence where Spring Beauties grew) Rt bank M. Baraclois Brook, meadow near mouth. Same as A

P2 228-a

6-4-30 Veronica ~~officinalis~~ serpyllifolia L. G 736, BvBIII 202. Bud Rt bank M. Bardelois Blk. P&B near R.R. bridge. Procumbent & much branched, rooting almost to infls. Lvs close together, distinctly petioled, growing smaller & more nearly sessile below infl. St minutely puberulent & almost glabrous, not at all glandular. Effect quite dif. from V.o 6-7-30.

6-4-30 Claytonia caroliniana Michx G 388, BvB III 38 Fl. Under Salix A.A. & vicinity. Petals with touch of yellow at base of blade. No "basal" (BvB) lvs. found. St bears 1 pr of opp petioled lvs the largest being 1 1/2 x 5/8 in.

P2 229

6-4-30 ? Viola pallens, Brainerd G 584, BvBII 556 Fl. Rt bank Balaclois in marshy place along west side R.R. track. Petioles & pedunculeles commonly with short dashes of red. Lvs glabrous, ~~ciliate~~ sometimes ciliate toward base, petioles with scattered hairs. All lvs (at least c. 4 S.) tend to have lower lobes rolled inward. Scape stands well above lvs. Of 11 fls examined 7 had lateral petals entirely beardless & 4 had very sparse short beard. Under side of older lvs often tinged with red. dots as in calyx

6-4-30 ? Amelanchier oligocarpa, Roem & Sch. = A. Bartramiana, Roem Byr Bll 293 Young lvs only no flrs fr. R.R. track bet Cartyville & St. V Barchois Blks. Lvs maroon (not tinged green), rounded at base. Decid. nova stipules silky-white hairy.

PL 230

6-4-30

♂ fls. Cyperaceae. Prob a Carex Consider C. gynocrates Wormsk & Drej, Byr Bl 361 or C. exilis Dewey & Drej, Byr B I 376. Plentiful in bog below R.R. bridge on R.R. bank Baraboiois. Culm very slender. 9 in high, rather obtusely 3-ed but not deep. triangular, slightly thanthe achenia (not inflated) lvs. Spikes about 3/4 in long, slender. Fls all ♂, the lower scales with 1-2 stamens the upper one usually 3 stamens. Scales light brown with pale green mid-nerve, short-mucronate. Plants tufted.

6-4-30

No flrs fr. Left Bank Baraboiois towards R.R. bridge. Basal lvs ragged Senecio ? in color texture etc like the plant that fros. S. Jacobea 6-5-30 but instead of being deeply divided to apex, the apex is in shape of terminal lobe.

Pr 231
6-5-30 Claytonia caroliniana, Michx (See 6-4-30)
Frequent in ft banks Robinson's Bk bet R.R. & Ford Rd.

Pr 232
6-5-30 ? Viola incognita. Brainerd G 584, B&SD 556 (on walk from Cartyville along track to Robinsons Bk & down left bank to Ford Rd almost surely along track). Dif in aspect from V. pallens 6-4-30 in that lvs are larger, lighter green, more nearly orbicular & tend to open flat instead of lobes rolled forward. Petioles & peduncles pale green with no red dashes. Petioles & undersides of young lvs sparsely but def. pubescent with white hairs at sl. angles to surface. Lateral petals lightly bearded with hairs longer than V. pallens 6-4-30. Otherwise fls. look much the same. Rose & lt tinged with red dots.

Pr 233
6-5-30 Viola labradorica, Schrank G 586, B&SI 561 Fl. Cartyville Sl. along R.R. track to Robinsons Bk & in meadows left bank Robinsons Bk also fields near "Bill" Corlis house. Frequent.

Pr 234
6-5-30 Alopecurus pratensis L. G 129, B&SI 193 Fl. Field east of R.R. track just no. of Cartyville Station
Sp Spikelets purplish

6-5-30 Senecio Jacobaea L.
No flags. Common on R.R. tracks so side Robinson's Blk. Stout root-stock & lvs. very suggestive of ill'd Senecio Jacobaea L. B & B #542. A 853. St. woolly. Identity verified 8-10-30

Pa
6-5-30 ? Veronica ~~serpyllifolia~~ serpyllifolia L (see 6-4-30) Fl R.R. tracks bet. Cantwell's & Robinson's Blk. Lilac 6-4-30.

Pa
6-5-30 Ribes prostratum L'Her. = R. glandulosum Greene B & B #238 Fl. Meadows left bank Robinson's Blk

C Pr 235 = 448

6-5-30 Salix

♀ fls. Left bank Robinson's Blk meadow west of R.R. Bridge, south side of small logan. about mid-way bet 2 barns. Sparingly shrub 5-7 ft high. Aments ~~sessile~~ lateral on short ½ in peduncles which look as tho might develope into lfy shoots (fls now very young) as they now bear 4-5 small lvs and sub lvs. found elsewhere × These lvs. (½ in long) oblanceolate-oblong, acute (not at all acuminate) at apex, narrowed at base slightly tomentose on mid-rib above & white silky hairy beneath but show signs of becoming glabrous. Seem to be entire. Rachis pubescent below ament. Scales broadly linear pale green with just slightest show of yellow & brownish at very tip, hairy with slight hairs. Ovary pubescent. Pedicel pubescent at least twice as long as green gland. Stigma almost or quite sessile, ~~not~~ slightly thickish, ~~lfd~~ twigs brown & distinctly gray pubescent much like D of 6-4-30. × Perhaps buds toward tips contain only lvs.

D Pr 236 = 449

6-5-30 Salix

♀ fl rather more advanced than C but evidently same species, scales green, stigma sessile

Lvs beginning to look very green. None as yet glaucous. Prob buds not to near to go to twigs bear only lvs & no infl. Below & over fence from C., 6 pp. small barn.

E Pr. 234 = 450

6-5-20 Salix.

North side of Logan a little down stream from D. 0ft. fl. [illegible] same species as C & D. A low shrub with no trunk but numerous wand-like shoots from ground. Amenta 1¼ in long on short 3/8-½ in lfy [illegible] branches. These lvs less developed than those on st above & below. Lvs 1¼ in long lanceolate, very low serrate, definately acute, almost glabrous but not shiny above, still somewhat silky pubescent beneath on young pubescent shoots. Scales light green like D. Stamens usually 2, sometimes at base 3 infl 3 or 4. Filaments glabrous × anthers yellow. Gland more or less crenately lobed at top. × or with very few inconspicuous hairs toward base.

Pr.

F 238 = 451
6-5-30 Salix

♀ fls. North side Logan, the next willow down stream from ♂. 13-15 ft high. many stems from base, branches habit more or less of lilac. Aments on short 3/8 in. lfy. lateral branches. Sts also plentifully leafy with similar lvs on short new lateral branches. Lvs like A & B (6-4-30) in teeth, tip & general appearance more nearly oval or elliptic, glabrous, the same conspicuous silky white hairs at base of new twigs. Branches like A & B in being smooth & shining brown or olive drab & nearly bloomless (very pubescent at tip (some of pubescence a little rufous). Scales brown to below middle with long white silky hairs (straight not wavy as in A & B) Pedicel 2 to 3 times as long as gland. Ovary glabrous, tapering to point & style which may be considered rather long. 1 mm. stigma lobes notched. Perhaps same as A & B.

& Pr 239 = 452
6-5-30 Salix

♂ fls North of F & end of another small Logan. 12-15 ft high, many sts. from base all with many wand like shoots. Aments on short 3/8 in lfy shoots. Bracts lvs rather more developed 3/4 in long, narrowly oval, 5-tuse at apex, narrowed at base, mostly entire (sometimes with very few low & tipped teeth

toward base. Glabrous with few remnants of hairs & somewhat pubescent on upper side of red petiole. Not blue A, B & F. Base of young twig with tuft of fugacous hairs. St green, ridging & warty, except at somewhat pubescent tip. Rachis & infl. pubescent. Scales brownish at tip with ~~[illegible]~~ wavy hairs. Pedicels 1-1½ as long as gland. Ovary glabrous & tapering much as in F.

H P.L. 240 = 453
6-5-30 Salix
♀ fls. On same log as F, several yds down stream, among alders (about ½ way bet # 6 & pond) Prob same as F tho lvs thicker. Hairs of scales straight in lower part of infl, very wavy ~~[illegible]~~ in upper part.

J P.L. 241 = 454
6-5-30 Salix
♀ fls. about 10 ft. below H. Aments lateral on short ¼-⅜ lfy branches & almost sessile with lvs. bract-like. Other young branches with lvs. in long. Lvs. narrowly oblanceolate, obtuse to acute at apex, long tapered to base, entire, glabrous or tom, silky pub. beneath (a.t. 5.)

6-5-30

(c. K.S.) esp. ssp. atrapex. Aments 1 3/4 in long. Rachis pubescent. Scales dark to middle, long-silky pubescent. Pedicels 1/3 (or less) as long as slender gland. Capsules tomentose, style long (1+mm) & slender, stigmas long & slender. Twigs green glabrous. Young twigs not silky-white hairs at base not very conspicuous

K 342 = 455

6-7-30 Salix

♀ No. 5 ft in small clump. Saldens in open. 8 ft. high. Prob same as F.

L 343 = 456

6-7-30 Salix

♀ 15-20 ft high. Next down from K. (10-15 ft) Very like F. & part of the same. The pregnants are 1½ in long & styles perhaps because further advanced 1½ mm & twigs shining & glabrous almost or quite to tips.

M 344 = 457

6-7-30 - Salix

♀ 20 ft high in same narrow thicket on and a few steps above K but on south side (thick

opp across Logan) Same as L and hence perhaps same as F.

N 345 = 458, 459, 460 or 461

6-7-80 Salix

♂ 20 ft. high. Middle ♂ same thicket as J & opp J. ♂ & like G. entire except for few low teeth at base, petioled & mid-rib reddish beneath. Almost the same but note irreg. ♂ gland sometimes lobed & stem with filiform capitate appendage from apex as long as gland

O 346 = 462

6-7-80 Salix

♂ flrs 8 ft. high. At east end ♂ thicket parallel to thicket M-N and in line with K. Marked with a ring on trunk. "All ♂ in this thicket seem the same." Prob same as F.

P 347 = 463

6-7-80 Salix

♂ 5 ft high Same thicket as O. north side leaning out over meadow. All ♂ in this thicket seem the same. Low bare red petioles and red dash ● mid-rib ● of N but ● are low

6-7-30
low toothed to apex (or sometimes entire). Amounts like A v B but note gland sometimes 2-lobed
Could this be ♂ of N?

Y 248 L = 464
6-7-30 Salix
♀ fls. Middle of thicket a few steps west of E. (east of ford) Prob same as F this stigmas longer

Z 249 = 465
6-7-30 Salix
♂ fls. Middle of same thicket as F a few steps below F and almost opp ♀. Suggests A but note that many fls have staminode (?) in addition to the 2 stamens

Z 250 = 466
6-7-30 Salix
♀ 10 ft high. On small log and same as ♀) opp to and north of Y. Prob same as C. v D. Solitary with an ovoid.

R 251 = 467

6-7-30 Salix

♀ 5 ft high

In meadow down stream from foregoing (where cows were pasturing 6-5-30) near west fence on north side of little logan marked with blue string. ~~Suggests I but st glaucoviridis shorter~~ Suggests 6-2-30. Rolls in upper part of shrub (except deciduous bracts at base of aments) Twigs on lower part of shrubs bear young lvs.

S. 252 = 468

6-7-30 Salix

♀ 6 ft. 10 ft high. Same pasture as R west side, near track thicket by fallen log. Pr B same as F.

T. 253 = 469

6-7-30 Salix

♀ fls Same meadow as R & S. East of bay pole near back thicket with spruces. Pr B same as F.

U 254 = 470

6-7-30 Salix

♀ fls. Many trunks to 3 in diam. Bark gray smooth when young, rough when old. Spruce tree glade (Chance) north of above pas. Fence out side broken fence. Pr B same as A & B.

Pl 255

6-7-30 ? Veronica hiemifusa Dickson G 728 B VB III 202. Fl. Left bank Robinson's Br "willow meadow. Base creeping. St & ascending & upright to 8 in. Lower lvs short petioled. St lvs sessile. All opp. Lower lvs obscurely crenate, upper St. ones almost entire. Bracts narrow, obtuse-rounded. St. puberulent, upper part of pedicels gland-pubescent. Pedicels longer than calyx but shorter than bracts. Corolla 6 mm wide; upper petal dark blue with darker veins; lower petal lighter. St. lvs distant, larger than lower lvs.

Pl. 256

6-11-30 Lonicera caerulea L var. villosa T & G 955 = L. coerulea L B & B III 281 Fl. Roside Rd Crabbes St shortly after turn towards Crabbes village. Near Salix . Fl. Note peduncle 10-15 mm.

257

6-11-30 Amelanchier oligocarpa Roem G 1460 = A Bartramiana Roem B & B III 298 Fl. Near above Note: Lvs often rounded at base.

Pl 258

6-11-30? Viola septentrionalis Greene G 582. B & B II 550. Fl. Meadow no. of spruce grove opp. Cecil Thomas (1st houses on Rd Bartlett to Crabbes) Jeffreys Fls lavender, lower petal white & veined at base

but veins less contrasting than in *V. cucullata* & other 4 petals with no contrasting veins. Lateral petals well bearded (not at all clavately) & spurred petal hairy at base & other petals sometimes with a few hairs. Spurred petal decidedly shorter than lateral petals. Sepals white bordered & ciliate almost to tips but auricles not white bordered or ciliate in same way (a few sparse hairs on edge). Peduncles, petioles & both sides of lvs pubescent. Sepals not marbelly obtuse.

PR 259
6-11-30 *Viola*
Fl. Violaceous. Hairs on lateral petals clavate & veins darker than petals making same contrast as in *V. cucullata* (6-15-30) Shape of fl like *V. cucullata* but sepals & pubescence of petioles lvs & peduncles like ? *V. sepalo-trinalis*. Lower petal hairy at base.

PR 260
6-11-30 *Menyanthes trifoliata* L. A660 BvB 1 ✕
Fl. Jeffrey's Pond behind school house. A lovely sight. Pollen grains (84x) looked elliptic and did not show 3-angles (BvB)

I Pr 261 = ~~548~~ 570

6-11-30 Salix

♀ ^ west of Crabbes Station on ~~east~~ west side of road bet 1st & 2nd telephone poles. Blue string. 2 ft high

Scales only very slightly yellowed at tip, v moderately hairy. Pedicels 3 mm long i.e. 5-6 times as long as gland. Ovary puberulent. ~~Style~~ stigmas slint, almost sessile. Young shoots tomentose. Lvs oval, entire acute, rounded at base, glaucous beneath v puberulous mid rib. Softly & sparsely downy above; very reticulate-veining.

II Pr 262 = ~~569~~ 571

6-11-30 Salix

♂ Crabbes Station, same rd as above, 20 rods grd shortly after turn towards Crabbes Village. Blue string. Near Honeysuckle. 7 ft high. Beside 2nd telephone pole. Scales dark tipped, hairy ovary. Stamens 2, filaments glabrous. Lvs elliptic, acute, narrowed at & reniform-rounded base, with low, glandular-tipped teeth almost to apex, glaucous & glabrous beneath, glabrous above (remnants of few hairs) reticulate veins not rugose. Old twigs puberulent. Honeysuckle is about 10 ft west of willow.

III Pr 263 = ~~571~~ 572

6-11-30 Salix

♀ Same as I 9 ft high. 20 rods rd just west of II. Blue string. Almost halfway bet 2nd & 3rd telephone pole.

IV Pr 264 = 573

6-11-30 Salix

♀ 10 ft high. Few stems beyond III, bark at edge of slash thin, striate. Rebs puberulent on front. About ⅔ way bet 2nd & 3rd lat pl on pet. Scale dark in whole length. Pedicels 2-3 times length of gland. Ovary 1 mm long, puberulent, Style almost 1 mm long (longer than ½ VII). Tips falcate. Lvs oblanceolate, obtuse, narrowed to acute base, entire except for few obscure gland-tipped teeth toward base, glaucous beneath, with few hairs remaining above & beneath. Twigs brownish yellow, glabrous

V Pr 265 = 574

6-11-30 Salix

♂. Shoots from stumps. Bet IV & road. Blue striate. Scales dark almost to base, hairy wavy. Stamens 2 glabrous. Lvs elliptic or narrowly ob-lanceolate, acute & narrowed to not very acute base, with very low gland-tipped teeth almost to tip, glaucous & glabrous beneath, glabrous above (when young shining above but dull later). Pet same as III

VI Pr 266 = 515
6-11-30 Salix

2 8 ft high. Few steps beyond N at edge of alaska Blue adding about 10 ft east of 8th telephone pole.

Ament like IV in scale & ovary. Lvs like IV except obovate with acute tips & def. tho gland-tipped teeth to tips (these quite visible to eye). Perhaps same as IV since III seems to have lvs of both.

VII Pr 267 = 516
6-11-30 Salix
2 8 ft. about 3rd telephone poles east of ~~end~~ bridge bet. Crabbes St & Crabbes Village. Nearer the latter. Blue Aments like III & VII except that most of scales are dark only to above middle. Lvs not as distinctly & completely toothed as II but more so than IV. elliptic to obovate. (this means bridge ½-1 mile east of Crabbes village not the 2 very small bridges further east)

6-11-30 Picea canadensis BSP 965, B&BI 61
2 fls & old cones R/R bet Crabbes Station & Crabbes pointed out by Roy Rempf & verified by microscope. Tree behind Batacharis Cabin are this species. Bracts hidden under outward curving edges of scales.

6-11-30 Picea mariana BSP 965, B&BI 61 & flo old cones. R/R bet Crabbes St. & Crabbes pointed out by Roy Rempf & verified by microscope. R.R. callus & fls "blue" but after early but they seem to have some wine color

as asa P. Canadensis.

6-11-30 Abies balsamea Mill 4 60. B v BI 68 ♀ fls Rd bet Crabbes v Barachois Brook, Cones in high, pale green, bracts (a.t.s.) longer than scales, conspicuous with downward curving tips.

268

6-11-30 ? Hypericum boreale Bicknell ♀ 575 B v B # 594. Remains of last yrs. infl. Bet Barachois Rd v Crabbes Rd in cattails part in Jeffreys Pond & along road (in ditch) nearer Barachois. St. much decumbent v throwing out long runner like branches even at. ♀ old infl. throwing out shoots. Def. as in ill. B v B. Capsule 3 valved. Lvs sessile. Fill. 3-nerved.

6-11-30

Same Cyperaceae with all ♂ fls as 6-4-30 Jeffreys Pond.

269

6-11-30 Carex

Fl Ditch along road bet Barachois v Jeffreys Village 70 11 inches. St. sharply 3-Ld. Fls in 3 sessile clust heads, ♂ below ♀ above. Stigmas 2. Stomata ex. capot very slightly conspicuous on edges above. Lvs flat, 2½ mm wide, acuminate margin

6-11-30
overtopping culm. Whole plant bright green. Scales white with green midrib. Bract of lowest spike scale-like with long subulate tip, bracts to other spikes slightly exist similar to scales. Culms lenticular (almost circular)

A 270
6-11-30 Carex
Fl. near above 3 in high,

271
6-11-30 Veronica serpyllifolia.
Fl. near above.

272
6-11-30 Viola pallens Brainerd
Fl. Barachois Camp in close cropped pasture

273
6-11-30 Viola incognita Brainerd
Fl. with V. septentrionalis, Jeffreys.

374
6-11-30 Salix
♀ Same as one of other willows of 6/11 but tag lost.

6-13-30? Arenaria lateriflora L. & 380 = Moehringia
--Fenzl Bv Bst 57 Early bud field on land side of
the 2 ponds no. of Robinsons (See 7-30 & 7-6-29). Prof Fuller
Note: st. lvs above, pedicels, ~~and~~ base of calyx and
edges & mid-rib of lvs beneath finely pubescent
with white hairs. Calyx lobes white edged. Styles
3 or sometimes 4.

6-13-30 Draba incana L. BoBII 100 Fl on
~~steep~~ bluff on sea side of ponds no. of Robinsons
1½-2½ in high. Evidently same as last summer
6-30 & 7-3-29 tho 1 spec. has st leafless except
near base.

Pr 275
6-13-30
Cyperaceae Fl by 1st little pond north of Robinsons.
Seems to be annual with roots much intermixed
but could not distinguish any common rootstock
or other connection. 3 in high. St. filiform perh terete
(not at all def. in 2). Culm leafless with 1 or 2 sheaths at
base, upper sheath being very shortly pointed. Lvs or
perhaps sterile culms similarly sheathed rising from
same root. Fl head terminal, solitary about 5 mm
long, bractless, thicker than culm, all scales subtending perfect fls. Stamens 3, styles 3-cleft.
Achenes ● (as in S. pungens) Leaf ● prolonged ● in spearing

6-13-30
tapering beak, style 1/2 as long as body. Style above no signs of developing tubercle at base. Bristles 4 hispid but not flag. barbed. (hispid) Scales dark purple-brown with thick green mid-rib or without. Comarella of Scirpus paucifloreus

276
6-13-30 Carex
Young fr. Fl. ♀ no signs of any ♂ on plant. Plants connected with what prob. would be called stolons. Plants 3¼ in. high with numerous setaceous lvs at base, shorter than culm & rough on edges at tip. Culm rather strictly angled. Spikes solitary terminal & bractless. Fls 100 or less. Scales brown the lower ones acuminate, the upper more nearly acute. Perigynia green with brown hardly toothed beak, stigmas 2 Fr. spreading Heads 10 mm bright mat. With above.

~~276~~ 277
6-13-30 ? Carex
♂ fls only. Perhaps same spc. as above & possibly same as Cyperaceae 6-4-30 but shorter (3 in tall) & scales blunter. With above.

278

6-13-30 Carex

Very young fr. near Robinson's (Prof) same as observed 1929 at Bell Coolee on Baraboo) 2 in high. Leaves 2 mm. wide, rough on edges, culm filiform with 2 drooping & spiked few fld & short & terminal & capitate. ?? C. capillaris L. G 246, BUBI 411.

Pr 279

6-13-30 Pinguicula vulgaris L. G 738
Fl. Robinsons.

6-18-30 Picea Canadensis BSP. G 65, BUBI 61 Ofla
Dunn Stephenville Crossing. Pedunculate white 1/4 in long.
Very loosely ovate leaflets in scaley bracts at base.

280

6-19-30 Corallorrhiza

Fl. Romaine Brook 2nd islands above mouth same as Salix perhaps coenorota ♀ birch.

Scapes 4-5½ in high 4-8 fld. Scapes greenish-yellowish or brownish green slender with about 3 loosely sheathing scales. Flatus very + numerous Sepals & petals yellow ♀ slightly greenish tinged. Lip white, shorter than pendant sepals, hardly lobed at base tho the sides at base are definitely curved upward. Lamellae might be called "thick & attenuate". Spur very obscure protuberance. This all points to C. trifida Chatelain L 317, BVBI = C. Corallorrhiza Nat. BVBI 574 but base of lip dk purple spotted, column yellow + purple spotted as desc. C. maculata ♀ and base of sepals & petals more or less purple spotted. [See 7-19-38 for desc. of C. maculata which is not this.

281

6-19-30 Viola

Fl. Romaine Brook one island near mouth. Flowers, more deeply blue & more striking in veining than V. cucullata Hairs not bunched, lower petal hairy. Sepals not at all ciliolate. Leaves fluid green. Plant glabrous throughout.

6-19-30 Cystopteris [illegible] L-G 43 = Filix —— Anderss.

~~Boradeau~~ Romaine Blk Rocks in island near left bank. St green. Sp young inclusium showing.

A ~~282~~ 282 = 424

6-19-30 Salix.

♂ 25 ft ~~above~~ leaving Romaine Brook 1st island above bridge east side, ~~north side~~ Balsam. Young twigs red, pubescent. Young fr or latent twigs with fewlvs. Scale black tipped. Style almost 1 mm long, stigmas short 2 va oval & lanceolate ~~at~~ base, ~~acute~~ with low incurved but definite ~~flange~~ keels entire length, glabrous, finely reticulate veined (held up to light) def. glaucous beneath. Fr. glabrous, turning red. Reticles slightly pat on upper side. Stipules very small. Stip lvs. nowd 2½ mm long. Marked X A

B ~~283~~ 283 = 425

6-19-30 Salix

♂ Same island as A s-w corner. Br & same as A. Trunk same char as A. Marked X B.

C 284 = 426

6-19-30 Salix

♂ Same island as A & B, s.e. end, trunks decumbent Br & same apc as A & B. Mid rein fls rather deep dish. also young shoots. Trunk same char as A & B

Marked X C

D 285 = 427
6-19-30 Salix
♀ Romaine Bk. Next island (above A. B & C) upstream, middle of brook. Much like A & B but young twigs green & lvs beneath white glaucous less blue than A, B & C. Marked X D

F 286 = 428
6-19-30 Salix
♀ Romaine Bk. Same island as D. s-w tip, low sprawling over mud flat. Scales thick tipped, long heavy, capsules pubescent. Styles & stigmas long. Young twigs reddish, pubescent. Lvs lance-oblanceolate acute, narrowed to base, entire, edges slightly revolute (very much so as they expand). When very young pub. both sides, becoming glabrous above but some long silky hairs lingering beneath. Stipules lanceolate [illegible] Rim Rushes (mosses) just above "deep lake clay" and also in gypsum talus near so. end. were not pressed] Marked only with white cord.

F 287 = 429
6-19-30 Salix
♀ Romaine Bk & Maple, S. tip of island above E. leaning over water. Resembles C. Marked X F.

G 288 = 430
6-19-30 Salix
♀ Romaine Bk Island opp. gypsum cliff, so. end.
8 in diam by big spruce. Evidently same as ✱
Marked X X

H 289 = 431
6-19-30 Salix
ø 8 in diam, decumbent at would be 30 ft high if
straight. Few steps west of G. in group of trees with
trunks on ground. Marked with string, an adjacent
trunk marked X.

J 290 = 432
6-19-30 Salix
♀ On little runlet behind (upstream) island ♀ of ✱.
Prob same as A or since two spaces green D. Marked X J

K 291 = 433
6-19-30 Salix
♀ in talus of gypsum cliff near so end. Couldn't tell
if roots ring gypsum. Prob same as A. Not marked.
Roots at base of spruce (or balsam) left the 2 southernmost
chimneys.

pr 292
6-19-30 Alchemilla pratensis F. H. Schmidt ✱ 491 B & B
= 264 ✱ Field at mouth of Romaine Berth common.

Pr 293

6-19-30 Glyceria nervata Trin ✓ 159 = Panicularia — Kuntze BvBI 364. Mouth of Romaine Bk. From running root stock, 2 in high. Panicle 2½ in long, erect (a.t.s.) Sheaths closed to top, hardly scabrous. Blades 2¾ in long 4 mm wide hardly scabrous above. Spikelets (3-fld) of this as dese. G.

6-19-30 ?? Saxifraga aizoides L ✓ 446 = Leptasea — Haw BvBII 217 Stranded in Romaine Bk no fls or fr. (See 7-20-29)

6-19-30

Stranded in Romaine Bk. No fls or fr. Looks suggest Saxifraga Aizoon Jacq. ✓ 446 = Chondrosea — Haw BvBII 223. (NKE 7-31-30 could this have been seedling thistles?)

Pr 294

6-19-30 Equisetum fluviatile L ✓ 53, BvBI 41 Little marshy pond by road bet Indian Head & Stephenville

6-19-30 Hippuris vulgaris L. ✓ 605 BvBII 612. Fl showing stamen. With above.

6-19-30 Utricularia intermedia Hayne ♀737, TBVBIII 228 with stolons. Bearing yellow flowers collected (fallen & missing when studied 6/23) but two scapes.

6-20-30 Arethusa bulbosa L ♀312, BBBI562 Fl F. & P.

6-20-30 Picea rubra ~~rubens~~ Dietr ♀65 = P. rubens Sargent BVBI61 ♂ fls No fr. F. & P. cabin. Twigs yellow red-brown. Leaves blue green with white lines obvious (20×)

395

6-20-30 Cypripedium acaule Ait ♀ = Fissipes acaulis small BVBI 550 Fl. F-&-P. edge of marsh near cabin

296

6-20-30 Listera cordata R. Br. G 316 = Ophrys — L BVB
= 568 Fl. Steep woods in F-l-P. marsh. Fl green, 2 pupilid 5 mm
wide. 1 specimen 17 fls.

297

6-20-30

Leguminosae. No fls fr. but because of tendril per B.
Vicia or Lathyrus: Edge of beach & woods at side of Dun.
Young plants 2 in high, seed still attached. St 2 ed.
2 ft to 2 alternate obovate 5×7 mm, entire, 3 nerve, mucronate.
Stipules 7 mm, half sagittate, entire, acute. Plant glabrous,
bright green (See 8-19-29 for 2 ft ed hemisphere plant
which is evidently def.) Tendril very short. Root
of one plant has small nodule which might be tuber (?)

298

6-20-30 Stellaria humifusa Rottb G 382 = Alsine —
Britton BVBII 42. Fl. in brackish marsh edge of bay in
front of Dun Stephenville Crossing.

299

6-20-30 Scirpus rufus Schrad G 190 BVBI 332 Young
fr. Damp sand at side of Dun Stephenville Crossing
Culms usually 1-1½ in apart.

300

6-20-30 Juncus balticus Willd var. littoralis Engelm
G 383 = J. balticus Willd BVBI 468 Bud. with above Stephen-

ville Crossing. Culms 1/4 in or less apart.

301 Pz

6-20-30 ? E. bercharis

with above early fl. On horizontal root stocks 1/2-3 in bet. tufts which consist of 1 or more fertile culms & several sterile culms (which might be taken for less except that they are sheathed at base as are culms. Culms filiform 1 1/2 in high. Head 6 mm high. Scales purple with brownish or greenish broad, keeled, nerve in middle & scarious edges. Stigmas 2-parted. Stamens 3, bristles downwardly barbed.

302

6-21-30 Orobanche uniflora L. # 740 = Thalesia — Britton Bo Bill 233 Fl. Hamp. Bk Dis J. Co. lane.

6-24-30 Hylocomium proliferum Lindb Dun 236. No fr. On logs in woods bet. marshes F. le P. Clarke's near this for climbing cabin.

6-24-30 Psilium crista-castrensis De Not Dun 331 No fr. with above

A 303 = 385
6-24-30 Salix lucida Muhl & 331, BORI 593
♂ fl. F-le-P. Cabin. Same as 385

B 304 = 386
6-24-30 Salix
♀ F-le-P. Cabin. Lvs lanceolate, entire, revolute, acute each end, dark green above, gray with white silky pub. beneath. Capsules silky, style 1½ mm long. Scales dark tipped. Young shoots pub. Cotyledons ♀. Capsule not more than 2 x gland. Cotyls same as E 6/19 & 7/31 1930 Same as 386

C 305 = 387
6-24-30 Salix
♀ F-le-P. Cabin Lvs glaborous beneath, slightly reddish with slight pub (Lobes irregularly dentate) above. Twigs drooping. Lvs oblong, acute, truncate at base, serrate. Capsules glaborous, pedicels longer than black tipped scale & more than 2 x gland. Aments 1 in long.

D 306 = 388
6-24-30 Salix
♀ F-le-P. Cabin. Lvs slightly obovate, glaucous beneath glaborous above, red & very shining when young.

Pods glabrous, style 1 mm. Pedicel 1½ × gland & about length of black tipped scale.

E 307 = 389

6-24-30 Salix lucida Muhl

? F-le-P. Cabin.

F. 308 = 390

6-24-30 Salix

? Prob sanicaa B. but young twigs glabrous

6-24-30 Sisyrinchium angustifolium Mill

A 392, B V BI 543 F-le-P. Sir J. Cs brookmouth. Quarry W side of peninsula somewhat purplescent

309

6-24-30 ? Viola blanda Willd A 584 B V BII 556

Woods path from F-le-P. Cabin to Sir J. Cs Several plants with what are prob buds of cleistogamous flo, 1 with withered fl & 1 with petals just fallen. Rot stocks very slender - prob horizontal & what seem be beginnings of runners. Lvs broadly ovate to almost orbicular, broadly acute & obtuse, sinus narrow Lvs shining above but always with scattered upright white hairs, lighter & more shining beneath glabrous & with sim stiff hairs on veins

6-24-30

veins. Petioles glabrous (1 case with few scattered similar hairs) sometimes with red dashes. Peduncles glabrous with red dashes, more slender than & shorter than petioles. The one without ♂ seems to have lateral petals beardless.

310

6-24-30 Erigeron lyssopifolius Mielx # 817, B V B III 438 Fl. 1 clump only at Kanab) See J. C. Cook & Harris Bk. Tufted (1 at front rt) 6 in high. Fls ½ in diam white turning pinkish. Involucre appressed ciliate

6-24-30 Eriophorum callistix Cham # 196, B V B I 324 Fr. F.-L-P. marsh Roots rolata v brownish.

6-24-30 Carex pauciflora Lightf. # 232, B V B I 389 Kanipe fr. marsh in stipe junction bet. little & big marsh F.-L-P. Spongy base of perigynium encloses adh. stipe & achene (See 7-14-30

6-24-30 Eriophorum angustifolium Roth # 197, B V B I 324. Young fr. F. & P. marsh

6-24-30 Rhamnus alnifolia L'Her ♯ 561 BvBII 503
Fl. Harrys Bk F-le-P. Cabin.

~~311~~ 311

6-24-30 Trillium cernuum L ♯ 394, BvBII 526 Fl. F-le-P.

6-24-30 Sanicula marilandica L ♯ 610 = S. marylandica
L BvBII 628. F-le P. Cl 13 heads on one plant all had 1 or more
♯ fls although most fls were ♂?

6-24-30 Geum rivale L ♯ 486 BvBII 393 Fl. F-le P.

6-24-30 Shepardia canadensis Nutt ♯ 590 =
Leparagyrea — Greene BvBII 576 Young fr. Style
disle. Still evident.

6-24-30 Taxus canadensis Marsh ♯ 62, BvBI 67 ♂ ♯ ♀
fls just going by. F-le P. Cabin

6-24-30 Rubus Chamaemorus L ♯ 487 BvBII 376 Fl. F-le P
small marsh. Note not mentioned in desc. ♂ fls (at least) with
sometimes (at least) only 4 calyx lobes; also many
stem pubescence esp on calyx but also elsewhere short
hairs & few gland tipped.

P_2.

6-24-30 Vaccinium — G 641 = Oxycoccus

B v B III 705 Rt fls in fr. Fl. P. small marsh. Note: shoots of relatively large thick glaucous red-dish lvs. Adnate lvs flat, ~~extended~~ (recurved) beneath, obtuse, very obscurely toothed, the largest 8mm x 3mm.

6-24-30 ? Vaccinium Oxycoccus L G 641 = Oxycoccus — Mack B v B III Fls. 1-2 on rachis terminated by long ½ short but bract not above middle. Filament fully ½ length of anthers Lvs acut. P 88 "rarely proliferating"

6-24-30 Cornus stolonifera Mich x G 624 B v B III 660 Fl common at Fl. P. camp. Lvs on both sides with the appressed 2 branched hairs (as the attached in middle) note -29

6-24-30 Smilacina stellata Desf G 391 = Vagnea — Morong B v B I 516 Fl near end of season Fl. P. Catin.

6-24-30 Smilacina trifolia Desf G 391 = V. — Morong B v B I 516 Fl. wet place in strip of woods bet the 2 F. Le P. marshes. Cf with above.

6-24-30 Scirpus calospidoneus A. G190 B & BI 328
Very young fr. F. le P. Marsh.

3/2
0-25-30 Streptopus amplexifolius DC G 292 B V BI
No fls fr. Lvs more or less variegated with white
Lpt vars Harris Bks at little brook opp. Whites Cabin.

313

6-25-30 Galium kamtschaticum, Steller, 1747
B & B III 261 Fl. (1 plant only found) Left bank Harry's Brook below White's Camp at F. le P. just inside woods.

314 = 393

6-25-30 Viola

Fl. Harrys B'k left bank bet F. le P. cabin & White's camp on gravel ~~bar~~ bar. Root stock stout green & with brown old petioles green often branched ~~at~~ to 20 or more ~~at~~ plants often arising from same root-stock. Plant glabrous throughout except for occasional hairs on upper sides of lvs in axils of leafl. Lvs dark green above, much lighter beneath. Young earlier ones slightly tinged purplish. Lvs ovate with broad sinus which is not evident to eye as basal lobes rolled inward. Later ones are to 1½ x 1½ in acute, earlier ones smaller & sometimes definitely obtuse. Fls stand just above lvs. Fls large 1 in from tip of lower petal to tip of apex. Dark blue-purple centre with darker purple veins. Lower petal shorter than lateral ones, widely notched at tip with sides curling upward. Lateral petals inserted & spreading from base is in V. ~~one~~ cuneate. Have upper edges together for very short distance forming with lower petal a tubular effect with stigma & anthers hidden. The 2 upper petals inserted & spreading showing peduncle & apex between usually overlap. Cleis. & fls (a. & S.)

upper petals more or less notched at broad tip.
all petals beardless.

on short recurved peduncles. This seems to agree with #55 (7-27-29) (also all petals beardless) which M.L.F. called V. nephrophylla Greene but see also #56 (8-1-29) not beardless. See also 6-19-30.

6-25-30 Viola cucullata
Fl. Harris's Bk along little brook on left bank opp. White's Camps to cf. with above.

315
6-25-30 ? Thalictrum
height 12 in.
No flr fr. Cf. with T. polygamum Muhl St. slender at base with sheaths some of which are undeveloped lvs. Lvs much the same but only 1/2 or less as large making quite diff effect.

316
6-25-30 Thalictrum polygamum Muhl
12 in high. No flr or fr. F. & P. Cabin to cf with above.

317 Pl
6-25-30 Hierochloë odorata Wahlenb #123. = Savastana — Scribn Bull I 172 Harris's Bk left bank opp. F. & P.

318

6-27-30 Cypripedium parviflorum Salisb & 306 B & BI 550 Fl. Hamp Blo Clumps by gate at Capt. Campbell's landing. St 40 cm high with 4-6 lvs. the uppermost distant from next & less than ½ cm below fl. St slightly glandpub esp. bet uppermost lf & next lower lf. lvs sparsely hairy esp. below & ciliate. Petals & sepals dark purplish brown (greenish at base only) Lip 3 cm long, rich yellow with purple dotted lines inside & hairy inside towards base. Lateral sepals joined almost or quite to lip, much shorter than lip. Dorsal sepal horizontal (rise-sacial) seems to bear several sts. Inst least one case a filiform braet 15 mm long in front of upper lf at its base.

319

6-27-30 Listera auriculata Wiegand & 316 = Opdrypo — House B & BI 566 Fl (& many in bud) Hamp Blo left bank in sand by bank & in bushes Mr. Taylor's place St. 1.2 below lvs. 2 cm to 2 in long Lip 6 to 11 mm long & in large spec. broader at top than at base.

320

6-27-30 ? Viola blanda Willd

Around Mr. Taylor's house. No petal. fls Pro Bounce

as 6-24-30 F. & P. the leaves shining above. Fruiting Capsules (prob) of cleis. fls on short horizontal or ascending peduncles thick & blunt, dull purple spotted & streaked. Rots sometimes like ill B V B III 556 of V. incognita Brainerd. Peduncles & cleis fls red dashed.

321 Pz

6-27-30 Pyrola asarifolia Michx # 629 B V B II 670 Buds & non flowering plants numerous with Listera cuneiculata on Mr. Taylor's land. Fl on woods path bet Red Rock Pool & Capt. Campbell's. Fragrant.

322 Pz

6-27-30 Pyrola minor L. # 628 B V B II 670 Fl. L ft bank Hampton Rd Red Rock Pool.

6-27-30 ? Polytrichum juniperinum Willd Dum 165 Near Red Rock Pool. Surely P. but the leaves folded in. St 2 in height.

6-27-30 ? Funaria

See Dum 123 Near Red Rock Pool. Capsules dead. But two fleant 8X as long as wide, acuminate, scattered. Rots F. hygrometrica.

Pr. 323

6-27-30 ? Festuca ovina L var hispidula Hack
G 162 See F — L BvBI 271 (var not given) Fl. Probat Mt.
Taylors but perhaps at Bickertons place. Very like ill BvB
& agrees with desc. except that lemmas are hairy above
middle & sep. on edges. Spikelets 8 mm long exc.
awns, usually 4 fl. pale & glaucous. Awns 2-3 mm.
Roots not well shown in spec.

6-27-30 Pr Ball at Mr. Taylors place or perhaps at Bickertons
Glyceria nervata Trin G 159 = Panicularia — Kuntze BvBI
Spikelets green.
Dactylis glomerata L G 154 BvBI
Alopecurus pratensis L G 129 BvBI 193 Spikelets green.
Anthoxanthum odoratum L G 131 BvBI.
Arrhenatherum elatius Beauv G 141 BvBI
? Poa saltuensis
Pr Bsame as #57 (7-26-29)

324 Pr

6-27-30 ? Aspidium Filix-mas Sw G 42 = Dryopteris
— Schott BvBI 21 See Clute 186. Sp. ~~Fowlers~~
Bickertons place as path from woods leads
into hay field by house. Frond bi-pinnate & pinnules
toothed all around. Largest frond 26 in above stipe.
Rachis & stipe with light brown scales the basal
ones lance-linear & acuminate. Fruit dots & indusia
as desc.

325
6-27-30 Carex

Advanced fr. Black Duck marsh. Sts 2-3 erect & seem stoloniferous. St below embedded in mass of sheathing outer bases & bundles. Culm about 12 in high, 3-form & perhaps obtusely 3-ed, smooth. 2 or 3 slender, stiff as culm, solidly 3-ed (not in white) smooth base of culm with much stiff brown shredding (old bases etc?) 3 sp. 1 terminal about ½ in long, many spikes shortly ♂ below with about 7 ♀ fls above, others mostly ♀. Scales of ♂ fls thin light brown with scarious edges, acute. Scales of ♀ fls firmer rich brown with lighter edges, midnerve not conspicuous, shorter than perigynia. Perigynia horizontal (making stem effect when seen from above), brownish with fallen thin green serrulate margins with shortly bidentate beak. Outer side convex & obscurely nerved entire length, inner side flat with many fine nerves towards base only. Base spongy & rounded. Achene blunt at apex, wider below middle, narrowed at base, plump. Stigmas 3. Considered C. exilis Dewey A 22 2 B V B ± 376

326
6-27-30 Drosera longifolia
20 fls fr. Black Duck Marsh

327

6-20-30 Oenothera pumila L. G 600 = Knieffia — Spach B v B II 601 Fl. Bielsertonia Rd to Black Duck. Upper part of pike nodding abruptly.

6-30-30 Pinus Strobus L. G 63, B v B II 56 L vs & fallen Cones near Black Duck Bridge very broke.

6-30-30 Viburnum Opulus L. var americanum Ait G 759 = V. — L. B v B # 270 Fl. Black Duck Rd v also at Fl. P. Cabin Fertile flat bar pleasant odor.

6-30-30 ? Barbarea stricta Andrz. # 439 B v B II 197 Fl (at tips) inflorescence very fat (too young to see pro. fruiting) Bielsertonia Hayfield. Seems surely Barbarea v since prob apparently v flowered v deep yellow as Bulgarica remembered perhaps B. stricta Pods often slanted out (alignment with st.

6-30-30 Stellaria graminea L. G 382 = Alsine — B v B # 45 Bielsertonia entrance fd to Black Duck.

6-30-30 Leontodon autumnalis L 6863 - Apargia autumnalis Hoffm BVBIII 310 Fl. Bicknertonia

Pg. 328

6-30-30 Crepis tectorum L 6870 BVBIII 327 Fl. Capt. Campbells hayfield front of house. Evidently same as #38 7-27-29 differing in that st. is really lfy only on lower third the subtending lf. also that heading to be lanceolate v bractlike none longer than 1 in from tip to base of petiole with indef. petiole since st lowing & bears small runcinate lobes. (Perhaps this is what is meant in desc 7-27-29)

6-30-30 Lycopodium clavatum L. 956 BVBI 47 Rd Bicknertons to Black Creek bridge near latter.

Pg 329

6-30-30 Poa trivialis L 6157 BVBI 255 Fl. Bicknertons hayfield. Culms to 18 in, slender, serrad prone one base but no creeping root-stock Sheaths shorter than internodes roughish. Lvs rough below. 3-4 mm wide. Ligule 3-4 mm long pointed, white, truncate v erose at apex, Paniele Floret 3+ mm. 2 fld, lemma 3 to 3-nam long, glabrous except for scant pubescence on midnerve below, webby at base. Inflor. yel. lower green Culms hardly

6-30-30
hardly rough below infl.

330 Pr

6-30-30 ? Pra pratensia L. ✓ 1076. BVBI 256. Fl Bick. ertoniana field. Seem P. pratensis, But Note ligule pubescent. 3mm long ✓ glumes both 3-nerved the 2nd not greatly longer ✓ wider than 1st.

6-30-30 Trifolium repens L. ✓ 509. BVBII 358 Fl Bicknellton. Note stipules forming tube sheathing at. below ✓ above ✓ Fl. Scarcely but perceptibly last observed 6-20 ✓ 21-30.

6-30-30 Trifolium hybridum L. ✓ 509, BVBII 357 Fl Bicknellton. Note stipules sheathing at base being united for short distance at base only ✓ not united at back above petiole. Much larger than in T. repens.

6-30-30 Trifolium pratense L. ✓ 509, BVBII 355 Fl Stipules divided quite to base in front ✓ not united at back above petiole. Heads sometimes almost pedunculed but since calyx tube distinctly pubescent evidently not T. medium.

7-4-30 Deschampsia caespitosa Beauv. ♀ 140 B&B I 215 Harry's Blk below F.B.P. Fl.

7-4-30 Anemone riparia Fernald ♀ 402 inc in A. virginiana B&B II 99 Fl. Frequent at White's Cabin at bank, Harry's Blk F.B.P. Same as #91 (7-28-29) identified by M.L.F.) Lilac A. virginiana in involucre has petioled & all but one peduncle with involucre of 3 petioled lvs. Sepals 5 ten 2 cm long, 3 broad, obtuse with a small acute point & often very much & centers giving truncated appearance. The other 2 sepals narrower & acute.

331

7-4-30 ? Carex foliigama Schkuhr ♀ 388 = C. Buxbaumii Wahl B&B I 419 Asdees esp. B&B. The short or no-stalked sheaths at base (as in B&B) more or less filamentose. Can't see if perigynia is "granular" (not dentate at top as in B&B) Scales conspicuously purple brown with broad pale green mid-rib. Some where near F.B.P. camp on southward.

Pr 332
7-4-30 Salsum kamtschaticum Stellen (See 6-25-30 Same station

Pr 333
7-4-30 Veronica americana Schweinz 1737 BVB III 200 Fl Little brook at side Harry's Brook below Whites Cabin

Pr 334
7-4-30 Cardamine pennsylvanica Muhl 1936, BVBII 184 Fl v young fr. Near bog

Pr 335
7-4-30 Cypripedium parviflorum Salisb (See 6-27-30) Rt bank of same little brook as above again a little further down Harrys Brook Rt bank.

336 = 402
7-4-30 Ranunculus
Fl v advanced fr in gravel of cliff opp & slightly below White's Cabin, left bank Harry's Bk F. & P. Surely is this same as #97 (7-27-28-1-29) and is #97 which M & F. Oct '29 called R. macounii Britton the one which in list submitted 1930 is called R. repens var glabratus? St 18 in tall thick, succulent & almost glabrous. Similar stolons (?) from base are elf at very tips but not (as yet) rooting — v. much like ill BVBII R. septentrionalis Poir

but divisions broader at base & with blunter teeth. Q fruited R. repens & at F. & P. camp-house larger, lighter & more nearly shining & hair no white spots. Lvs look glabrous but are minutely & sparsely hairy making them rough to touch. Fls bright yellow, 1in diam. Calyx not reflexed. Achene bordered & somewhat like that of R. repens but beak tapers more gradually from body more like that of R. septentrionalis & striate R. repens (30 B) & lvs curved than R. repens lvs shorter than R. septentrionalis (less than ½ length of achene) (See 7-34-30

337

7-4-30 Pinguicula vulgaris L. (See 6-18-30) 6-28-29
Fl Harrys Brook left bank bet F. & P. & White Cabins

338

7-4-30 Salix

♂ Lft bank Harry's Br. gravel beach below white cabin almost to little brook. Stamens 2, scales dark tipped. Lvs short-spatulate in grave. Young twigs & buds densely white-woolly-hairy. Lvs dark green & shining above, glaucous beneath, oblong, acute rounded at base, almost entire. Stipules small circular ear-shaped (point upward)

No 339

7-7-30 Calopogon pulchellus R. Br. #312 = Limodorum tuberosum L. B&BI 563. Fl. F. & P. marsh. 1st season. Fl. solitary. Lip has tuft on each edge at base near base

Pr 340

7-7-30 Calamagrostis Pickeringii Gray #134 B&BI 308 Flo not yet open. F. & P. marsh. Lvs glaucous gray-green. Panicle glaucous purplish

Pr 341

7-7-30 Deschampsia flexuosa Trin. #1406 B&BI 316 Fl. F. & P. marsh.

7-7-30 Utricularia cornuta Michx #738 = Stomoisia —— Ref B&BIII 232 Bud. F. & P. marsh in long narrow basket near entrance to Sir J. C. Green Island. Like lvs & white bladder bearing scapes evident.

Pr 342

7-7-30 Scirpus Calyptrata L.G 196 B&BI 328 Fr. F. & P. marsh

Pr 343

7-7-30 Carex exilis Dewey #222. B&BI 376 Fr F. & P. Same as 6-27-30 Culms 12-18 in. Prof. caespitose new shoots growing from near base of culm. Lvs

Channeled.

Pr 344

7-10-30 Satureja vulgaris Fritsch G706 = Micromeria vulgare L. BvB III 138 Fl. Sie J. C's Laur. Notes calyx tube hairy inside. Connective thick, the ends forming anther sacs which are not always developed. esp. in posterior (shorter) stamens, which may be more or less converging. Anterior stamens often almost diverging. Corolla tube with hairy lines inside from the 3 front sinuses.

7-10-30 Prunella vulgaris L. G 698, BvB III 115 Fl. with above. All 4 stamens 3-toothed, the lower (sinus) tooth bearing anther.

7-10-30 Clintonia borealis. Rob G 291, BvB I 514. Sie Jc's Fr. id. 3 ovules lateral, inserted below the transverse middle.

7-12-30 Fragaria virginiana Duchesne G 479, BvB II 260 Fr. F. Lab. Cabin. Scape decidedly shorter than leaves. achenes pitted. Bract calyx lobes hardly connivent about young fr.

A Pr 345

7-13-30 ? Habenaria psycodes Swtt 311 = Blephaglottis — Rydb BVBI 559
Fl. F. le P. Cabin 18 in high raceme ~~8~~ 8½ cm through.
Lip 1.2 cm wide, 3 div. Flip narrow so that space
bet. is almost ½ L, lower div. def notched.

B Pr 346

7-13-30
Fl. F. le P. Cabin same as above except lip 1.3 cm
wide & div. broader so they almost touch at edges,
lower div. hardly notched.

7-13-30 Panicum boreale Nash G 108, BVBI 150 Fl
F. le P. Cabin gravelly river. Lowest sheath pub. with
soft spreading hairs, upper sheaths ciliate with
similar hairs. Culms 70 in high, simple (a. t. S.)
Spikelets usually at ends of slender branchlets
which are ~~not~~ much longer than spikelets
(as ill but not as dense. BVB)

7-13-30 Carex stipata Muhl G 238, BVBI 381 ? unipe
fr. At low Fl. le P. Cabin. Achenes scarcely if at all stipitate.
otherwise as desc.

347

7-13-30 ? Carex intumescens Rudge ♀ 358 B&BI 439 Fr. almost ripe. Culm not stout, 3-angled but not thin edged, roughish, somewhat tufted on running root stock. Basal sheaths reddish. Culm naked in middle with 2 upper lvs shortly below spikes & much overtopping them. ♂ spike slender, 1 cm on peduncle a little longer, terminal but nearly hidden by ♀ spikes. ♀ spikes 2 each 7-fl, upright, nearly sessile. Perigynia inflated, green, rounded at base about 18 nerved, 1.3 X 5 mm, narrowed to 2-toothed beak. Scales about 5 mm long, green at mid-nerve more or less prolonged into rough awn with much broader hyaline margins. In ♂ spike the 2 lowest scales rough awned at nerve which is prolonged into rough awn but other scales smooth & merely acute. Spec. pressed had longer & more conspicuous ♂ spike & ♀ spikes 4-6 fl.

348 Fr

7-14-30 Habenaria orbiculata Torr ♀ 309 = Lysias — Rydb B&BI 555 Fl. Stip 1 woods west of little F.C.P. marsh to 20 of path near its crest (where tree trunks lay across path). Orchids seen twisted (See B&BI 548 "straight" as against H. obtusata "variegated"

349

7-14-30 Habenaria obtusata Richards ♀ 309 = Lysiella — Richards Rydb B&BI 556 Fl. Near above to 1 no. side of path.

Pz 350
7-14-30 Habenaria blephariglottis Torr & G 3:105 B. —
Rydb Bv B I 557, Fl. F. & P. Marsh well distributed.

7-14-30 Stellaria graminea L & G 383 = Alsine — Britton Bv B
III 45 Fl. v. unique fl. R.R. track bet. F. & P. & Black Duck. Lvs.
smaller & obtuser than usual & capsules divaricate
as in ill. of A. longifolia (Bv B) but seeds rough as well
as at square

7-14-30 ? Urtica L yallii Wats A 348, Bv B I 6 359 ? fl
R'd bet Black Duck Bridge & Campbell corners. Stinging &
lvs of spp.?: Urtica. Since many fl. vs are 7 cm & stems
ne 15-20 on a side prob U. L yallii instead of U.
gracilis.

7-14-30 Pyrola americana Sweet G 638, Bv B II 668 Fl.
R.R. bet F. & P. & Black Duck same plateau 8-345=29. Only
1 seen 6 in high, 5 fld.

351 Pz.
7-14-30?? Carex paupercula Mich (v. a var) A 238 Bv B I 419
Fr. Bog at wet edge of strip woods bet F. & P. marshes.
Terminal spikes slender ♂, the other 2 or 3 on drooping
capillary peduncles & but seem to have

Stigmas 3

a few ♂ flowers at base. Perigynia beakless & orifice entire) glaucous green, flattened, orbicular & broad ovate, minutely granulate-papillose, narrowed at base, awnless (but may be stipe) adhering. Lowest pale or sheath bract with sheath 1 2mm only & no culm-glabrous. Ivs flat, mostly near base about 4 mm wide. Fruit 3 ♀ sheaths thin & hyaline-margins conspicuous & 1 mark on blade. Root-stock more or less horizontal, covered loosely with long thin brownish scales & fronts joints & roots thick orange-brown-ish & densely velvety roots. Culm 3-sided & little roughish toward top. Lowest ♀ glaucous bract 1-2 mm wide, rarely top culm, other bracts very narrow & much shorter. Spike all near top of culm. Scales narrower than perigynia & 1-1½ times long, acute to mutulate, brownish. Perigynia about 4 mm long. ♀ spikes less than 1 cm long & about ½ cm wide. Scales seem deciduous.

352 Pr ♀

7-14-30 Carex

Fr. RR bed Set. Fl. Fr & Black Duck. Pist same as above but shorter. ♂ spikes have 3 ♀ flat tip. Scales of ♀ spikes are considerably longer than in atro & and purpleish [See 8-19-37]

353

7-14-30 Lycopodium obscurum L var dendroideum DC. Eaton. #56 Sp. R.R. bet F. & P. & Black Duck.

7-14-30 Eriophorum virginicum L #197, B & BI 336 Fl. F. & P. marsh. Stamens at least frequently 2 (as far as could be observed always 2)

7-14-30 Carex paniculata Lightf. (Same locus as 6-24-30) Ripe fr. Perigynium slightly constricted at point where it is spongy base and at base of achene.

7-14-30 Monotropa Hypopitys L #630 Fl. & last yr's fr. Stem 2 words bet the F. & P. marshes. Pale yellow, sepals & petals sparsely pubescent & not def. ciliate. Stigma def. retrorsely bearded. Seems to partake of chars of both H. hypopitys americana Small & H. lanuginosa, Nutt B & BI #675. All seed pods 4 celled, fr upright & more distant than expected from fl.

354

7-14-30 Luzula campestris DC. #379: Juncinella campestre Kuntze B & BI 485 F. & P. R.R. bet F. & P. & Black Duck in general form & appendages to seed as expected but perianth pale green with hyaline edges

& tepals making very pale effect. Seeds not ripe but well formed.

7-14-30 Gaylussacia dumosa T. & G. 638, B. & H. II 696 Fl. F. le P. marsh

355

7-14-30 Lycopus Campestris D.C. (see other spec 7-14-30 Fr. - perianth seg. rich brown. Capsules open seeds quite ripe

7-16-30 Cypripedium hirsutum Mill. B 307 = C. reginae Walt. B&BF 549. (See 7-17-30) Fl. Abundant. West side R.R at makeing chute 1½ mi no. of Spruce Be. marsh. [Bn same place 6-28-37]

356

7-16-30 Listera convallarioides Torr. & 316 = Ophrys — W. F. Wright B&BI 567 same little marsh as above. Pedicels & ovary glandular. Lip narrow (at base) at base, abruptly broadening with a short lobe both on each side into wedge shape with 3 obtuse lobes at dilated apex, margins finely (¼ at base) ciliate. Column slender 3 mm long curving slightly forward. Sepals & petals narrow, folded back over & hiding ovary. Perhaps enclosed "2 plants prospecting rivers above the antlers" B&B. Listera cordata found with one plant.

357

7-16-30 Empleuracia

Fl. white above. Evidently annual, simple, very slender, to 7 in high. St slightly purplish, hairy with short downward curving hairs. Lvs opp. below, alt above, distant none larger than 7×7 mm, lobed per (perhaps yellow) very small entire, next usually bluntly 3 notched upper ones more sharply about 9 notched. Fls not crowded at tip. Corolla 6 mm long (loosely) white with yellow eye, anthers lavender darker

[In same place 6-28-37]

scent if present. Lobes of lower lip have their sides parallel (if this is what is meant by B. and B. V3) Lvs pubescent both sides, margins almost revolute. Capsule longish more obovate Calista & has near apex a few dark spots which seem to be tubercle late basal hairs (See 7-25 and 8-13 and 8-19-37) Could this be E. arctica Lange ? 783 and B. & B. III 217? if not E. Randii Robinson ? decumbent & more lero cpescing about. [7-15-37 River near Dump Pool R.B.K. inclined to think this E. arctica Lange

358

7-16-30 Orthaneluc uniflora L. = Thalesia uniflora Britton (See 6-31-30) Fl. meadows.

~~359~~

7-16-30 Habenaria dilatata Gray ? 308 = Limnorchis Rydb. B. & B. I 554 Fl. Common in marshy meadows

A 360

7-16-30 E. pilobium

Fl. Pnk in marsh with Empetrum Rubescence much as in E. decumbens ~~Fl. Pnk~~ 7-17-30 but lvs broader to 7 mm & spreading, veins in some cases evident stem slightly grooved at top, Fls several.

B 361

7-16-30 E. pilobium

Fl. Pnk in marsh on logging road towards Charley's camp Spruce Bk. ? subsect. with decurrent lines of hairs but without basal shoots

7-16-30

shoots or tufts. This would suggest E. adenocaulon but cfd with spec 7-18-30 F. & P. Camp hood differ in being distinctly thin about petioles, nearly sessile or quite cordate, much less veiny seen from above & not definitely finely toothed. The heads seem unimportant from desc. (Gand BVB.) St very slightly pub. except on lines, Lvs glabrous, nota repand-denticulate. Heads 1 3/8 in x 1/2 in, lower ones distant, upper ones acute & upper ones, at least, alternate. Tips of at. droopy. (This may be due to shipment & collecting Box.) Petals pinkish. Immature pods 2 in long, much longer than pedicels, & finely tuberculate. Seeds pitted papillose. Fls & mat

C 362

7-16-30 Epilobium

Fr. Dr marsh on logging road towards Charley's Camp Spruce Blk. Sim to B but shorter, stout & in Lvs smaller & further apart. Fls 2-8 only.

363

7-16-30 Cardamine pennsylvanica, Muhl. Gl 4 36 BVB. II 184 Fls & advanced fr. Thearator.

7-16-30 Vicia Cracca L. Gl 536. BVB II 409 Fl. R.P. Spruce Blk

Seems only possibility but note that perigla calyx so short as to be nearly non-existent & the slender but flattened style is hairy more or less all around for some distance before tip (see G) not into "tuft or ring" characteristic "summit" (B&B)

364
7-16-30 Scirpus smithianus Fernald G 190 = Eriophorum alpinum L. B&B I 333 Fr. Good condition R.R. no of Sp. Bk.

365
7-16-30 ? Agrostis alba L. the teratological form ref. to G 132 a Q. stolonifera L. Pat. up Spruce Bk. about Labrea mill. Most of the normal but some with lemma at least 2X as long as glumes green & distinctly (about 9) nerved, palea enclosing purplish dry vestigial floral organs. (N.B. glumes 1-nerved)

366
7-16-30 Eriophorum viridi-carinatum Fernald G 197 B&B I 333 with Cypripedium hirsutum Fr. None of the heads black girdled; mid-rib of scale extending to tip or beyond. Lindey E. angustifolium, stipe hairy, mouth of sheath bristles almost same color, achene yellow brown almost truncate at summit. Achenes in Hang — red brown rounded & apiculate at summit, flattened on edges. Peduncles muscle the same

7-17-30

367

7-17-30 Cypripedium hirsutum Mill § 387 = C. reginae Walt B&BI 549 Fl. North Bk. meat ½ R.R. very slightly so. of bridge. Flg season almost passed. Habenaria dilatata also growing here but the Cyp h — by no means every where Habenaria d — found. Sterile stamen touch with yellow at top variously spotted with magenta. Lip hairy inside, varying from pale pink to red in front.

368

7-17-30 Pogonia ophioglossoides Ker § 311, B&BI 560 Fl. Meadow-marsh meat S.o of Island Pond on west ½ R.R. also meat ½ R.R. at Flat Nose Pond stop.

369

7-17-30 Habenaria dilatata Hook (see 7-16-30) Fl with Cypripedium. Not evidently in sphagnum — marshes as Faern 7-16 & 17-30. Seen again by brook at Black Duck.

370

7-17-30 ? Epilobium denaum Raf § 596 = E. linearis Muhl Fl. with Cypripedium. Simple to 1 dm high but from the 2nd lbs alternating in upper axils pairs branched later. St. brute with no decurrent lines, softly puberulent with incurved (in stants more nearly spreading) hairs. Lvs almost linear acute bright green.

at least upper ones longer than internodes 3 cm x 3-4 mm, margins entire, revolute, lateral veins obscure, finely pubescent both sides. Capsules finely pubescent. Petals white pale pink 5 mm long. Fl. s. Stat base (below & among rocks) has firm brown overlapping scales

371

7-17-30 Veronica Chamaedrys L. #739 B&H 220 Fl. & young fr. at Cutebridge Camp near North Blk (& near Campas to suggest possible introduction) seed during building this spring) Whole some (to base petioles 2 in long & pl. are dark blue, determined as Vdesc. (Capsules at base do not perhaps (or at least not maturing)

372

7-17-30 Rosa virginiana Mill. G #497. B&H II 285. Fl. R.R. Let Black Duck & Island Pool. Fl. & very young fr. Older st. Pendensely prickly but more recent & this yr's growth with only infra-stipular spines which are slender, almost quite straight 5-7 mm. Stipules dilated above slightly toothed (sometimes a few teeth gland-tipped). Lf rachis pubescent below & to 7-9 (usually 9) lfts 3-5 only at tip just below fls. Fls usually solitary, sometimes 2-3. Sepals gland-bristly, some with a few small lobes spreading after petals fall off. Calyx tube slightly gland-bristly or almost quite glabrous. Flowers rose, fragrant. Stipules softly hairy on edge (perhaps hairs deciduous later)

A 373
7-17-30 Rosa

Prob same plant as above. Seems to differ only in that on young growth infra-stipular spines often lacking

B 374
7-17-30 Rosa

Prob same plant as the above. No prickles on older wood (on the branches cut) and on young growth infra-stipular spines entirely lacking

375
7-17-30 Rosa nitida Willd 2 496. BVBII 385 Fl. RR ~~just~~ no. 9 Black Duck.

C 376
7-17-30 Rosa

Fl. R.R. (east side past side) just no. 9 Black Duck. Old wood with about downward bent, large based spines with many similar small spines between. Young growth unarmed except that glandular bristles ~~are~~ present. Stipules much like R. virginiana (dilated, with bristle-glandular-tipped, ~~and~~ fringed hairy on rachis) but larger. Rachis pubescent on back. Leaflets 7-9 some distinctly petiolulate, dark green & shining above, much larger than R. virginiana (above) 1½-2 in.

x 3/4-1 in, rounded to acute at apex x mostly acute at base, coarsely toothed. Fls 3 in across in Corymbs Calyx lobes 2 in long, gland-bispid, very narrow in middle, then expanded into narrow glabrous, fibs, not lobed, resembling those of R. nitida but longer. Pedicels & Calyx tube towards base sparsely gland-spiny. Calyx lobes spreading when petals fall & to linear & thickish. Unlikely possibly R. virginiana & or perhaps x but that of R. nitida but consider R. blanda.

377

7-17-30 ? Rubus canadensis L. ✓ 498 1303 II 279
F. R. R. bet Black Duck & Island Pond. Pedicels finely hairy, not armed & not gland-bispid. Lower surface of lvs pubescent but ? if "downy to touch" 2nd ? numerous fls, elongated & cylindrical (see ✓ 488) but not as in R. frondosus "provided for by their length with nearly uniform uniform bracts - - - " & perhaps not as in R. pergratus ? lvs are to be considered "glabrous or nearly so" Consider R. elegantulus since lfts of 3-foliate lvs are about 3 cm long (Ald cards with scattered 2 mm prickles - most than "rare" & young bearing spines closely pubescent with rare very short prickles, petioles & sometimes mid-rib with prickles; sterile growth well paroled

7-17-30
provided with downward pointing prickles on st. & petioles with some on midrib and otherwise almost glabrous except tracheids (lf to). F lowering shoots 4-6 in. usually after thin plan: from near base, in axil of uncle 3-foliate lf, a lf or bracted pedicel about 1 in long then at intervals of 1/2-1 in another bracted (sometimes once branched) pedicel in axil of larger 3-foliate lf (in bro); then pedicels not bracted in axils of 1-foliate lf (in bro), then terminal 1/3-1/3 length of short pedicels closed together in axils of bracts making about 16-20 fl in all. Fl 2.5-3 cm wide, petals obovate 14 x 6-7 mm. Calyx lobes sharp pedate acuminate.

378

7-17-30 ? Habenaria peycodes SW (See 7-13-30) R.R just no. of Black Duck. 20 in high. Raceme 7 1/2 in high 4+ cm wide very densely fl'd as often with plants around. Fl. Fl. Calix. Lip 12-15 mm, the 3 lobes broadly fan-shaped & the lateral lobes certainly fringed more than 1/3 their depth.

379

7-17-30 Equisetum variegatum Schleich. 2 5 + B I B I
42. R.R. dry bank bet North Bk & Harvey's [illegible].

Remains of spores. To 1 in high slender. White edges of leafs broader than narrow black center. Filiform tips deciduous (a few found) Rootstock creeping black valining with a lot of matted stuff at base of st.

380

7-17-30 ? Rynchospora fusca Ait f. $200 = R. — Ait BvBII 344 Fr. Marsh west side of R.R. bet Island Pond and Black Duck perhaps at or near Fat Nose Pond stop As desc. except that achene 1½ mm is fully as long as the flat tubercle and bristles less (some much less than 4 mm. Achene narrowed to a sort of thick neck at base. Tubercle inotead of "rough-serrulate" on edges seems minutely hispidon faces & edges. Infl consists of several small terminal clusters & a lateral cluster on filiform long (1¾ in) & about peduncle. Like ill BvB but more delicate. Rootstock not as ill BvB for which base stands out stolons from tips of which new plants no 3 flying culms on same rootstock.

381

7-17-30 Trifolium agrarium Lk 509, BvBII 354 Fl. R.R. bet Black Duck & North Rd just S nearer to No. Rd.

382

7-17-30 Triglochin maritima L. ♀ 80 BUBI 93 Fl & unripe fr. with Cyperipedium hirsutum. Capsels often only 5.

383

7-17-30 Carex

with above fr. 3 strictly ♀ spikes, stigmas 3 & achenes trigonous, beak sharply bidentate, perigynium inflated (this too tough to be called "thin & papery") ♂ spikes several. Lvs show no signs of being "nodulose" this culm might be moderately "thick & spongy at base." Culm sheaths upper ♂ & lowest bract is smooth with 2 edges sharp & the 3rd keen sharp, culm above lowest bract sharp angled & rough. Perigynia less than 4 mm thick, rather abruptly contracted into a smooth beak. This seems to be C. vesicaria L. var monile Fernald 1933 = C. monile Tuckerm BUBI 488 Lvs abit. firm erect as long as culm, 5-8 mm broad, tapered into long Dulac rough point (edges below point not very rough), yellowish-green. ♀ spikes 3 almost sessile to 2 3/4 in long x 1/2 in wide (inc beaks) Perigynia 6 mm long, about 12 nerved, smooth. Scales brown-purple with yellowish mid-rib shorter & much narrower than perigynia, acute to acuminate to rough awned. ♂ spikes 1 or 2 stalked but each spike (3) sessile the lowest with short filiform bract.

7-17-30 Eriophorum angustifolium Roth Gl 197 B VIII 325 With abtk F2. To γ with E. viride-carinatum, female

384

7-17-30 Utricularia cornuta Michx 1 738 - Stomaisia — Ref B V VIII Fl Manatee P.P. Lot Island Post & Black Duck

7-22-30

Scarlet Runner bean "Painted Lady" Cult. Capt. Campbell's. Standard red, wings free, cream color & longer than standard. Keel twisted into tight spiral. Pedicels in pairs (or racemes) the pedicels subtended by 3 bracts & each pedicel 2-bracteate at base of calyx. Style pubescent towards tip, stigma oblique. Lateral lfts short-stalked with 1 stipule each, terminal lft similarly short-stalked on prolongation of rachis with 2 stipules. Ovary silky pubescent.

7-22-30 Cirsium muticum Michx 1 858 B V VIII 353 Fl. Capt. Campbell's fields. This is common here and is always considered C. muticum but note that the bracts have subulate, appressed (never curving out or pendent) tips about ½ mm. The bracts closely appressed, thick, dark-green, with thickened midrib. Inner bracts

7-22-30

bracts elongated, as ft & thin with tops purple & almost aerate. All lvs white webby & lineate (2 ex) & st with sessile lvs almost to top (the elent & lobes in branches which bear fls bearing 1-2 small lvs besides the 3-4 smaller ones at the inflorescence. Consider C. discolor but note no prickles recurved. St def. ridged & noticeably hairy below (not very rough to touch) more nearly glabrous above.

7-23-30 Brassica arvensis Ktze #428 = Sinapis — L. B & B # 192 Fl & advanced fr. Behind Sec J. Co house

385 = 303

7-24-30 Salix lucida Muhl (same clumps 6-24-30) no fl & fr. Same as A 6-24-30 not as mature as fr & Same as # 303

386 = 304

7-24-30 Salix

no fl & fr Same as B 6-24-30 & probably same as B 8-11-29 Stipules none. Lvs mostly curled on edge with green gut in fold. Same as # 304

387 = 305

7-24-30 Salix

no fl or fr same as C 6-24-3 Lvs lanceolate lineate & rd & lvs glabrous above. Stipules semi-circular & those on young shoots smaller.

ends of twigs relatively large.

388 = 306
7-24-30 Salix
No fl or fr. Same as D 6-24-30
Lvs glaucous beneath, dark green above, glabrous thin dark Stipules of young lvs semi circular & relatively large, none on lower lvs. Perhaps same as D 8-11-29

389 = 307
7-24-30 Salix
No fl or Fr Same as F 6-24-30

390 = 308
7-24-30 Salix
No fl or fr Same as F 6-24-30 4 unspotted as in B.

391
7-24-30 Euphrasia
Flo young fr. Prob same as 7-16-30 Moist sand at back of "high beach" left bank Harry's Brook bet. F. & P. Cabin & little brook of Jap White Cabin.

392
7-24-30 Carex aurea Nutt G 332 B. & BI 397
Fr. with above.

393 = 314

7-24-30 Viola

Near above. Fr on bdd kind of fls. Same as unknown 6-25-30. Capsule & reg. fls (completely) about 1 Cm long, clumbery about equally obtuse each end. glabrous, green (when seed ripe) sepals spreading. Capsules & cl. fls on shorter more decidedly horizontal & downward curved pedunceles (2 some times nearly erect) similar to others but perhaps shorter & thicker at tips. Seeds brown & shining 2-2½ mm - diamet. 3 mm long 1 more pointed at base than at tip with conspicuous white fleshy attachment at base extending up on side ⅓ or more length of seed

7-24-30 Pinguicula vulgaris L & 939 B & BIII 226 Fr. Scape, calyx & capsule all gland-pubescent (this char not mentioned in manuals) Left side Harrys Brook near little brook above White's Cabin (See 6-28-29 "scape calyx gland-hairy")

394

7-24-30 Callitriche palustris L & 558 B & B II 478 Fl & unripe fr. Little brook opp White's cabin.

395

7-24-30 Sphenophylla pallens Scribn & 138 B & BI 344. Left bank Harrys Brk bet. F-le-P & White's Cabin

off with below. This is var. majus Scribn & 138.
Callus & rachilla joints not hairy as in below.

7-24-30 Trisetum melicoides Vasey (prob var majus Ketelle since lower sheath pubescent & lemma awnless) # 139 = Graphephorum melicoides Beauv BVBI 262. Same locus as above.

396
7-24-30 Deschampsia caespitosa Beauv # 140 B & I 215 Left bank Harry's Bk bet. F-L-P & White Cabin Aff with form commonly found in neighborhood & differs in having spikelets light green (not purple) x florets less distant, rachilla hairy about 1/3 length of lower sessile floret (not 1/2) & panicle 5-6 cm wide instead of 3 cm at most) x (spikelets show certain purple tinges only under microscope) Not D. flexuosa & not D. atropurpurea.

7-24-30 Arrhenatherum elatius Beauv # 141 B & I 220 Left bank Harry's Bk bet Fle P. Cabin & White Cabin. Lemmas distinctly hairy below middle.

397
7-24-30 Deschampsia caespitosa Beauv
F-L-P. camp. The common form.

398 A

7-24-20 ? Agrostis borealis Hartm. S/33, B V B I D V
Left bank Harry's Bk bet F & P & White Cabin. Branches spreading divided nearly above middle. Spikelets purple 2½ (or slightly more) mm long, the roughened awn exerted 1½ mm being 3 mm total length inserted a little middle. Lemmas with minute tuft of hairs on each edge at base. Culms tufted, slender, 8 in to top of infl. Dried basal lvs, short, narrow & curly. Culm lfy almost to top, lvs 2-3 in long 2 mm wide (never more than 3 mm). Culm smooth & striped (20×) lvs scabrous both sides, keel branches scabrous. Ligule 2½ mm. Upper sheath very long, the one below it shorter than internode. Lemma a little shorter than very acute & not quite equal glumes. Palea minute.

B 399
7-24-20 ? Agrostis
Left bank Harry's Bk bet F & P & White Cabin. Akin to A. pen-sylvanica only partially exerted & branches closely appressed (thus the whole somewhat nodding) Spikelet purple 3 mm long, glumes very acute, 3rd more so than A & lemma 2 mm with awn 3/8 mm long inserted well above middle, overlapping lemma very slightly & not at all exerted (awn ~~bent~~ bent & partly present) Sheaths all overlapping. Blades to 5 in long and 1½ mm wide. Palea seems lacking. Perhaps both of these are A. hyemalis B S P.

7-24-30 ? Aster foliaceous ind BvBIII 422
Left side Harrys Bk opp White Cabin Fl. (See #65,
8-6-29 & #66, 8-9-29 indentify MLF.) Asdense BvB
this st more than "sparingly" pubescent and
"lines" not very definite. Rhyonia 1 fl. 43
Pappus rather dingy. Outer involucral intermediate
bracts def. ciliate towards base. Rays light lilac.

400
7-24-30 Scutellaria galericulata L G 695, BvBIII
109 Fl. Harrys Bk little brook opp White's Cabin

401
7-24-30 Triglochin palustris L ~~BvB~~ G 80 BvBI
Flv unripe fr. Fl & P. little brook opp Whites Cabin.

402 = 336
7-24-30 Ranunculus
Fr. Same as 7-4-30 on cliff opp White's Cabin F. & P. Stolons
2+ ft def. looking at nodes. Some plants basal st.
more hairy than noted 7-4-30 but none as densely
so as ill BvB.

403
7-24-30 Carex
Ripe fr. Marsh on hill opp White Cabin left bank Harrys Bk
Very like ill of C. oligosperma Mich. G 349 v BK I 436
except that achene is widest

7-2430
widest and very truncate at top, narrowed (with sides somewhat hollowed at base, 3 mm high, 2 a trifle wider, slightly roughened & papyraceous in this inflated accentuated to be called "thin & papery" Calyx at ♂ but hardly "very" slender. Cor. at ♂ narrow (1 mm) shaped like a split tube with obscure keel which like edges is rough. ♀ 2-1, ♂ spikes often with short secondary spikes at base (♀ 216) and as remembered (this not collected) either ♂ spikes ♀ at base or (See BVB) it may be upper ♀ spikes ♂ lower. Scales as desc BVB.

404
7-26-30 Epipactis tesselata A.A. Eaton ♀ 315, ~~BVB~~ = Peranium tesselatum Nelles. BVB 569. Stem 3 words bet. the two F. & P. marshes, few yards no. of path where tree over hangs. Body of stigma 4 beaks each 1 mm. anther acuminate (meaning point curved over top) pollen masses). ♀ 1.5-2.3 cm, 5 spikes 4-8 cm to 30 fl. Pericarp about 6 mm long.

7-26-30 Gaylussacia bigeata C. Koch ♀ 689, BVB II 696. Young fr. F. & P. marsh cf. with ♀ dumosa. Surest distinction when no fr. is that lvs are about petioled instead of sessile as in G. dumosa

405

7-27-30 Potamogeton heterophyllus Schreb.
with Sparganium minimum

7-27-30 Lonicera caerulea L. var villosa T. & G. 1955 = L. caerulea L. B. & B. III 281 Fr. R.R. ~~bet. Fle. & Whites Road~~. Pedunculate mm (See 6-11-30 ped. 10-15 mm)

7-27-30 Eriophorum tenellum Nutt. A. 196, B. & B. II 335 Fr. as desc. Scales rounded at tip 3-nerved. R.R. bet Fle. & White's Rd. near side.

7-27-30 Utricularia intermedia Hayne & B. & B. III 228 No. fl. or fr. frequent in little brook where Habenaria lacera grows (ale below) Identified by aerulate veg. buds

7-27-30 Pastinaca sativa L. A. 620, B. & B. II. 634 Fl. & fr. White's field just west of bridge.

406

7-27-30 Apocynum cannabinum L. var hypericifolium Gray A. 663 = A. sibiricum Jacq. B. & B. III 22 Frequent in gravelly at White's Bridge & also at White's Cabin at A. & P.

407

7-27-30 Ranunculus Flammula L. var filiformis Hook = R. reptans L. B. & B. III 107 Fl. Having B. & B. at little brook below Rocky Pool bet White's Cabin & White's bridge

408

7-27-30 Habenaria

Fl. Rt bank Harry's Blk on st bank of little brook below Mutter Cabin with Cypripedium parviflorum & 7-4-30. Cfd with H. dilatata & 7-17-30 Fls dk. green lip less def dilated at base than H. d - and (judging from the few fls not too much withered) stigmas less not the trowel-shaped beaks bet. bases of "anther-sacs" perfectly plain in H. d -. Hence prob H. hyperborea R. Br G308 = Limnorchis - Rydb B&B I 556 ?. But shape of fl (erm to concave lip & upper sepal more incurved type) lip is often caught) less so like H. d — that H. dilatata & very var media times should be considered. No chance to have size & glands.

409

7-27-30 Habenaria laëera R. Br. G310 = Blephariglottis — Farwell B&BI 558 by brobdet (1st sec of Fla P. strip) on west side of R.R. (bet 448 mi sign & F. & P.). Stem not over 3 dm high. Spur 1.5 cm long. Gland & stalk of pollen-mass 1 mm each. Divisions of lip 7 mm long. Fls greenish white.

410

7-27-30 Habenaria clavellata Spreng G309 = Limnorchis deniopsis — Rydb B&BI 553. Not at all abundant.

411

7-27-30 Microstylis uniflora BS PA 318, ~~BS~~ = Malaxis — Mulx BVBI 571 Fl. with above. Occasional several spec. seen; 3 collected. Ft. narrow new bulb at base with old bulb very shortly below. Lvs. clasping at below middle v one spec had a second slightly smaller bf near base.

7-27-30 Progonia ophioglossoides Kerr Fls withering
Calopogon pulchellus R. Br " "
Habenaria dilatata Gray
413 Habenaria blephariglottis Torr

412

7-27-30 Schizaea pusilla Pursh 646 BVBI 9 with above. Steril v fertile fronds (in various stages)

414

7-27-30 ? Sparganium minimum Fries 669 BVB I 74 Fl beyond ~~fr~~ In brook-pond near above. Great, mostly submerged 7+ 3-5+ deep high. Lvs. sl ~~fl~~, not keeled 4 mm wide St. not long-beaked enough to be multipedunculatum, angustifolium v fluctuans, tapers shortly (at 5-6) to obliquely oblong stigma. ♀ heads all axillary: 1 (2 spec); 3, both sessile (1 spec); 2, the lower on ~~a~~ peduncle 28 & 10 mm (2 spec). Pist not ~~S~~. hyperboreum (Note diff in dear Band BVB.). But note that this diff from 9-5-29 where heads were all sessile v plant 1-1.5 dm.

415

7-27-30 Sparganium americanum Nutt var androcladum Fernald & Eames = S. androcladum Morong. Young fr. Withabove edge of water. Erect 4-5 dm mostly above water. Lvs rather taller than infl. Lvs thickish, ∆ below, flattish & keeled above 7-9 mm wide. Bracts keeled, dilated at base. ♀ all axillary, sessile. Infl simple (1 spec) or with short branch bearing 2 ♀ head (1 spec) or 1 ♀ & 2 ♂ heads (1 spec)

416

7-27-30? Sparganium diversifolium Graebner var acaule Fernald & Eames #69 = S. acaule Rydb. B & BI 72 Fl & very young fr. Rt bank at sharp bend & edge of little brook below Rocky Pool (det. Fl & P.V Watertown Bridge) Erect in mud 1-9 dm high. Lvs 4 mm ∆ below, flattish & keeled above, with broad adaxial membranous margin toward base. ♀ head 1 sessile below bract. Beak of fr will be long. (See 7-31-30)

417

7-27-30? Carex Michauxiana Boeckl & 254 = C. abscta Bailey B & BI 431 Edge of brook near Habenaria lacera & bm. Fr. Very like ill G and like ill B & B except perigynia quite smooth. 6 spikes 1 cm and almost hidden by uppermost ♀ spike. Basal plant is 1 or 2 very close together ♀ spikes overtopped by bracts and another ♀ spike short-pedunculed 1½-4 in lower. ♀ fl about 12. Perigynia 11 mm long × 2 mm wide. Lvs about

3 mm wide Plant 4. Slenderish. Scales acute (See 8-25-30

×418

7-31-30 Geranium Richardsii Britton & G 535 B & Bll #28 Fl & unripe fr. Islands mouth of Romaine Bk. Petals entire, 15 mm long, reflexed, 10 mm wide, claw. Fr seems likely to be somewhat slanted-ttandem. Carpels bigibbous on folds otherwise almost glabrous; seeds hardly show reticulation. Plant very neat, slender, light pale green with a sparse long white hairs. Petioles with line of short pubescence on upper side; "tips" of beak finely pubescent.

7-31-30 Galium palustre L & G 749, B & Bll 265 Fl & very young fr. Islands mouth of Romaine Bk. Lvs usually about 1 cm but sometimes to 2, 3 cm

×419

7-31-30 Romanzoffia obtusa Fernald & G 619 = Washingtonia — Coult & Rose B & Bll 638 Fr. Path on left bank of main stream (island when river is higher) near upper end of R.R.'s ex-plowing (path on which electric motor track. Romaine Bk 1/2 mi + above bridge.

420

7-31-30 Cyatopteris bulbifera Bernh ✓43 = Filix — Underw. B&BII 15 Sp v bulbiferous Romaine Blk about ½ mi above bridge at base of bluff on extreme left side. Coll with below. Note fronds more or less glandular beneath & indusia def. glandl. See Date 313. (7-20-29 Mr. Delaney a friend at Portan Port greavy said "fragrant fern" grew near mouth of Romaine Blk Could this be what he meant?) Longest frond collected 37 in, many half as long.

7-31-30 Cyatopteris fragilis Bernh ✓43 = Filix — Underw B&BII 15. Same locus as 6-19-30

421

7-31-30

Fern. Romaine Blk general region of C. bulbifera. Blades with texture & scales, color etc of Polystichum Braunii Fee ✓41 B&BII 17 but shape of blade in that blade narrow 6½ in × 1½ or less in & pinnules are divided ~~to base~~ to mid-rib only at base of at all being lobed less & less distinctly toward their blunt apices, lobes toothed as in P. B—. The very few spors as in P. B—. Tuft at top 9 cm × 14 in diam. About 20 fronds. Probably young plant of P. B—.

422 Aute 1/36

7-31-30 Aspidium Filix-mas Sw & 42 = Dryopteris — Saliot H BVBI 21. Same general region as C. bulbifera. Blades only 9 in long, 7 in and at widest point above middle, falcately tapering to acuminate tip. Sori as deac. indusia ciliate & grayish. Segments & pinnules def. toothed at apex. Several plants with only sterile blades found.

423

7-31-30 Saxifraga aizoides L & 446 = Leptasea — Haw BVBI 217 Fl. Sand bars in Romaine Bk shortly above bridge esp. numerous on point rt. bank perhaps ¼ mi above bridge. Upper part Sct. & infl. puberulent. Fls several to many in racemose infl opening first, the others on short branches from axils of upper most lvs (or bracts) the branches often bearing also a very short bracted branch (or pedicel)

7-31-30 Epipactis repens Crantz var. phyllodes A.A. Eaton & 315 = Peramium phyllodes Rydb. BVBI 569 Bud Same general region as C. bulbifera. In most advanced fl stigma 1 mm & head ½ mm. Anther has short blunt tip

424 = 282
7-31-30 Salix
Same as A ♂ 6/19 Roflorfr. Young twigs puberulent but hardly reddish. Largest lf 3 1/4 x 1 3/8 in, petiole 3/8 in. Typical form is elliptic but slightly wider above middle, rather abruptly narrowed to acute apex & gradually narrowed to a rounded base & is glaucous dark green & somewhat shining above, thick glaucous beneath, with low rounded almost reg. gland tipped teeth all around. Reduced Petioles puberulent above. The few very small (1 mm long) stipules that remain are withered dry. Lf disc above is on upper half twigs, lis on lower half smaller, more nearly lanceolate & usually acute at base.

425 = 283
7-31-30 Salix
Same as B ♂ 6/19. Similar to A Largest lf 4 1/4 x 1 3/4 in Largest remaining stipules rather ear-shaped 1 cm. long.

426 = 284
7-31-30 Salix
Same as C 6/19. Similar to A & B.

427 = 285

7-31-30 Salix

Same as D ♂ 6/19 Seems to dif from A only in that lvs beneath slightly less blue.

428 = 286

7-31 Salix

Same as E ♂ 6/19 Lvs as dese 6/19, the largest 3 3/4 × ~~1 7/8~~ 7/8 in rounded at base. Prb same as B ♂ 6/24 & 7/34. 1930. Lvs badly infested with grubs (as in B 7/24) with snake edges curled over & dist at ♂.

429 = 287

7-31-30 Salix

Same as F ♂ 6/19 Prob same as A, B, C & D. Note, this & other spec (Prb same spc) marked with lorpon back track of some grub or other.

430 = 288

7-31-30 Salix

Same as ~~D~~ ♂ 6/19 Prb same as A, B, C, D & F.

431 = 289

7-31-30 Salix

Same as ~~D~~ ♂ H ♂ 6/19 Prb same as A, B, C, D, F, & G.

432 = 290
7-31-30 Salix
Same as J 6/9 Pist same as A, B, C, D, F, G & H.

433 = 291
7-31-30 Salix
Same as K 6/9 Pist same as A, B, C, D F, G, H & J.

7-31-30 Malva moschata L. G 568, B & BII 575 Fl & unripe fr. Sand bank in Romaine Bk about ½ mile from nearest house. Fls pink.

7-31-30 Parnassia parviflora DC. G 449, B & BII 313 Fl & unripe fr. Romaine Bk along path at foot of gypsum cliff. Scapes 1¾-4¾ in, the cauline leaf clasping the middle. Petioles sometimes slender, sometimes flattened & broadish.

7-31-30
No fls or fr. When found in sand bar at foot of gypsum cliff Romaine Bk thot to be same as seen 6-9-30 which suggested Saxifraga Aizoon Jacq. But this seems more likely a group of seedling thistles (from one head) with a lower pair of smooth leaves & an upper bristly pair

Sometimes
1 What might be empty seed case attached to base of plant by short rather thick stem.
(In one case this "seed case" not empty)

434
7-31-30 Hypoxis laxa Lehm ♀ 684, B & BIII 85 Fl ♀
Fr. Seal Cove Brook west of S. Xing.

435
7-31-30 Spiranthes Romanzoffiana Cham & Sch ♀ Iridium strictum House B & B I 565 Fl with above.

436
7-31-30 Senecio Balsamitae Muhl var pauperculus Fernald & Wieux ♀ 954 nec in S. pauperculus, B & BIII 545. Fl in swale no side rd shortly east of Romaine Bk. St 5-15 in, one (or sometimes 2 fl).

7-31-30 Sparganium diversifolium Graebner var acaule Fernald & Eames (See 7-27-30) just past fl. Marsh by corner no. side rd east of Steplemills Church. ♀ heads ± the 2 middle superior axillary sessile, the lowest pedunculate which is adnate to st. for some distance above axil

7-31-30 Lobelia Kalmii L ✓ 769. BVBIII 303 Fl very young fr. Frequent bet S. Xing & Romaine Blk. Collat Seal Cove Blk & below here. (See 8/19 & 8/29 1929) Not that like 1929 apex this dif from desc: (a) all pedicels except the very lowest are longer than bracts and (b) fruit projects beyond calyx tube.

437

7-31-30 ? Pyrola elliptica Nutt ✓ 628 BVBIII 669 Fl. Romaine Blk with Osmorhiza obtusa Fernald. L 1½-1¾ in certainly thin, dull, longer than slightly margined petiolus & have little folded teeth. Calyx lobes ovate & ciliate with tips slightly spreading (but not like P. americana. Scape somewhat angular naked except for small bract near base and another near top. But anthers saccate (rather deep when studied 8/6) seem pointed enough to be mucronate.

7-31-30 Listera auriculata Wiegand (See 6-24-30) Immature fr. with very withered fls. Romaine Blk same region as C. bulbifera.

7-31-30 Corallorhiza trifida Chatelain (see Advanced fr & withered perianth with above.

7-31-30 Mnium punctatum var elatum Schimp. Dunbam 137. Prob fl. Prob Romaine Bk. This is prob the most widespread Mnium (upper ones in rosette) found frequently in Passaconaway region 1929. Lf as ill Plate 5, 5a & 5b. Dioecious.

7-31-30 Clara
Prob. same as 8/19 & 8/31 1929 then ident. from ill. Coulter Plant Structure p. 46. In pool Romaine Bk. Not as carefully studied as 1929. Yellow bodies frequent. The spirally marked spore cases of 8-31-29 not observed.

8-1-30 Hordeum jubatum L. & G 169 Bot Gaz 287
Beach S. Xing.

8-1-30 Polygonum Raji Babington See G 358, Bot Gaz 660 Fl & fr. Beach S. Xing. Evidently same as spec of 8-18-29 ident. by M.L.F. Seems to differ from P. Fowleri chiefly in sepals spreading.

8-1-30 Atriplex patula L. G 368 = A. hastata L. Bot Gaz II 18 a var. Beach S. Xing. Purple spreading L. v. hastata but not narrow. & & fl. green. (See 8-13-29)

438

8-1-30

Fl & unripe fr. 2mm Stephenville X-ing just inside side (south gate) in shade. Several delicate st. 4 in high from same base, glabrous. L ovate glabrous, of ofs the lower filiform about 12 mm long (internodes longer than lvs), the upper progressively smaller until in infl v or asterile st. they are less than 1 mm. All lvs united at base clasping enlarged base & node. St with 2-3 short branches at top each with terminal fl (& sometimes asterile), Fl about 8 mm across, petals white, 5, entire. Sepals 5, obtuse, whitish margined, rather more than ½ as long as petals. Stamens 10; styles 5, sometimes 4, longer than ovary (& seem to be opp sepals). This points to Sagina. Could this be S. saginoides Britton (G) B & B # 57. Unripe seeds rough (perhaps papillose. Unripe pod longer than sepals. Or could this be a shade growing form of S. nodosa from which it differs in (a) its elongated form, (b) upper lvs not proliferous (c) styles much longer. Note also this is glabrous except for slightest hint of gland-pubescence just beneath & on calyx & some (only) of fls. Lvs at base of st. close together forming tuft-like appearance. Plant evidently perennial judging from root & slender but branching & of from dried sts.

439

8-1-30 ? Potentilla monspeliensis L var labradorica Fernald 6482 mc mP. m – BVBII 253 Fl in sand at edge of bay Stephensville X'ing slightly so. of R.R. station. Well developed taproot branched at top. Plants 1 inch high and silky pubescent rather than hirsute. Fls 1 cm wide, petals emarginate, shorter than sepals.

440

8-1-30 Spergularia

Fl (when picked all closed when studied) & fr (young & almost ripe) Salt Mud flats east of RR in front of Stephensville X'ing. 3–1½ in high, unbranched, the very (perhaps annual) plants both sorts intermixed. Stipules flaparous, light or pinkish green. Sheathing stipules with free part short, bluntly Dulac or almost rounded. Leaves opp, fleshy erect about 1 cm long, 1 mm or less wide, not fascicled. Fls 1–3. Petals pink-lavender. Ripest pod seems 2× (or almost) as long as sepals, blunt. Seeds brown 1 mm wide & very slightly longer, covered with minute processes with def groove near edge making a rounded ridge of the edge. This mainly ascends to point to S. canadensis Don of 378 = Tissa — Britton BVBII 60. But note pedicels of ripest pod only 2 lines long 2× calyx and younger

8-1-30
younger pedicels clustered. Pedicels enlarged at tip. Calyx lobes fleshy with thin margins, obtuse & sinus with dark spot at base. Stamens in 1 bud 2; in another 3.

441

8-1-30 Spergularia
Young fr. S. x ring either with above or in dry sand bet. ride from Bay. Seems same as above but plants bright green & thin only 2 in high much branched.

8-1-30 Sagina procumbens L G 379, B & B II 51 Fr Sand bet Dunes Bay S. x ring. Seeds dark grayish brown roughened. Calyx & valves in 4 & 5's (Possibly sometimes 5 sepals & only 4 stigmas) Lvs tipped with very short bristle.

8-1-30 Sagina nodosa Fenzl var glandulosa Asch G 379 = S. ~~nodosa~~ in S. — Fenzl B & B II 53 Fl & fr S. x ring sand along bay at side of Dunes. Seeds roughened like above, darker & larger.

8-1-30 Stellaria humifusa Rottb ♀ 382 = Alsine Britton B V B II 42 Same locus as 6-20-30. Buds ♂ unripe ♀.

442

8-1-30 Salsola Kali L ♀ ~~♂~~ 879 B V B II 25 Early fl. Sandy beach at side of Dunn S. Xing. Flo to young to show any sign of wing on calyx except a little thickening

443

8-1-30 Spartina

Fl. Brackish mud along RR in front of Dunn S. Xing 7-15 in tall from horizontal root stocks 3.5 mm diam. Culm stiff, lvs firm, strongly erect with mid-rib thickened & rounded beneath. Largest lvs 8 mm wide at base tapering to acuminate involute tip. Lvs. glaucous, smooth (or hardly roughened) on edge. Sheaths overlapping. Ligule sometimes only partially exerted (Radis smooth sharply (obliquely) truncate) 3 angled. Spike ♂ about 3 spikelets on common axis. ♂ and prolonged at tip 2 mm or as long as terminal spikelet. Spikelets on short stout flattened pedicels which fold rather closely laid on to rachis & which have few hairs on edges. Spikelet 11 mm. 1st glume narrow, thin, 1-nerved about ⅓ length of 2nd glume and almost ½ not quite smooth or keel. 2nd glume

8-1-30

glume with broad scarious edges, 3 nerves close to keel, tip, keel, longer than lemma but shorter than palea. Lemma thin 1-nerved, slightly notched at apex, with minute hairs above. Palea broad, longer than lemma & 2nd glume, its 2 nerves not conspicuous. Styles (a.t.s.) approximated so that ovary appears simple. S. glabra Muhl var alterniflora Mey. ♀ 143 one in S. struck Rob BVBI 224 seems only possibility (but note discrepancies) Lemma longer than 1st glume.

8-1-30 Plantago decipiens Barneoud ♀ 845, = P. maritima L. BVBIII 247 1=♀ Fr. S. x my beach. One plant half fifteen hrs ♂ 1mm wide but clearly this with 4 stamens.

444 = 236

8-4-30 Salix

Same as 6/2/30 says Allen medrace. Young growth green slightly puberulent with short rusty hairs or firm glabrous yellowish green above, glaucous beneath varying in shape from oblong to oblanceolate or almost obovate, narrowed gradually to abruptly acute point & usually acute at base; teeth low & irreg. none at base 3-4 mm long. Petiole ½ in. Stipules narrowly to widely falcate from very small to 12 mm. glandular toothed both sides.

445

8-8-30? Rubus nigricans Rydb. ♯491 B.O. 13:114 '29
Ennispe fr. Marshy place in woods 20 ft. rid from Camp to Highlands
to School-house & almost across from the mucky tamarack
marsh. Stems & petioles sts. with numerous (but
not dense) st. weak, straight (hardly reflexed)
prickles. Lvs green both sides & appear glabrous
but (20 x) have few hairs on veins & margin
beneath also occasional touches of rusty brown
(glands?). Pedicels & calyx puberulent with more
of these ? glands. Lvs ternate & abode lvs 5-foliate
(4 lfts ac. rule) the terminal one on petiole 1/2-3/4 in.
Petioles & mid-ribs sometimes armed. Lfts caudate-acuminate
& sharply double toothed. Lvs fertile shoots 3 lfts the
terminal on petiole 3/4 in. petioles armed. Infl.
small 4-5-fld the lower lvs fls in axils of reduced
simple or compound lfts, the others subtended by linear
bracts (sometimes as long as pedicel). Calyx lobes
ovate-acuminate with awl tips 1.5 mm.

446

8-8-30 Agrostis
Young fr. Marsh east of Highland Camp same as one
called ? A. hyemalis B.S.P.C. 6:132 B.B.C. 207 9-5-29.
2 1/2 ft from decumbent base & tufted infl. Infl.
1 ft high with some branches 6 in. wide bearing
several slender elongated secondary branches
from above or below middle often nude but
sometimes with 3's or singly. Branches

8-8-30

Branches purplish v sharply scabrous. Radicals appressed. Fl. Spikelets 3 mm, glumes unequal very sharp pointed, lightly scabrous from about ⅓ distance above base. Lemma navicular, finely toothed at blunt apex, with tiny tuft of hairs on marginate base. Ls 2 mm wide, rough on margins v abov. The upper sheath extends above base of infl. One specimen had base decumbent v rooting at 2 lowest nodes.

8-8-30 Juncus nodosus L. ♀ 375 B&BI 478 = Lv fr. Marsh east of Highlands Pond. (See 9-5-29) Evidently this v. resembles ill B&B but tubers not well developed on those on rootlets perhaps torn off in collecting. Inner perianth parts hardly longer than outer (B&B) & Capsule def. longer than perianth. Infl 2-3 staminate lowest sessile, others erect. Ls roundish & deltoid, erect.

8-8-30 Juncus bufonius L. ♀ 370 B&BI 467 Immature fr. Marsh east of Highlands Pond. Axill (B) not axill (B&B). Inner perianth parts hyaline with narrow green mid-rib, outer ones with stronger green mid-rib. All acuminate

8-8-30 Juncus articulatus L. G377 BVBI 477 Fr. Marsh east of Highlands Camp (See 9-5-29) Same char. as to sepals & petals. Seeds longer than .5 mm (9) all Rosell G.

8-8-30 Juncus brevicaudatus Fernald G374 BVBI 481 Fr. Marsh east of Highlands Pond (See 9-5-29).

8-8-30 Carex flava L G345, BVBI 430 Fr. with above.

8-8-30 Carex filiformis L G348 = C. lasiocarpa Ehrh. BVBI 427 Fr. with above. Many sterile plants to be recog. by very long attenuate involute lvs.

8-8-30 Minuartia cuspidata Lepyx Dunbar .35 Fr. Same marsh as above. Lvs subulate, stiff, with lvs mostly turned to one side. Stem covered with brown tomentum.

8-8-30 Muhlenbergia racemosa BSP. G339 BVBI 186 Fl. Same marsh as above (See 9-5-29) Like 9-5-29 #84 except racemes to 2½ in. V.B. glumes white scarious except apex & midrib.

8-8-30 Eriophorum virginicum L. Gl 197, B&BI 326 Fr. Same marsh as above but not frequent there

8-8-30

Rosa sp. Very frequent & conspicuous in same marsh as above. Cyperaceae. Leaves very glaucous blue or gray green, 4 mm wide at base, tapering to acuminate tip, stiffly erect, glabrous, smooth on edges at base but roughened on edges & mid rib above, conduplicate. From base of plant underground runners with scales (not malapaping) 3/4 in long. Plant frequent in places too wet to collect. Roots have numerous sweet potato shaped tubers 7 x 1 mm on short stalks (These have white cord running thru them but seem too deep in shape & too compact to be anything but tubers.

8-8-30 ? Solidago uliginosa Nutt. Gl 791 B&B III 387 Fl Road east of Highlands Camp in little marshy spot in woods opp the usual marsh & slightly further east. Achenes not quite glabrous. Ht. 36 in high. Infl on branches to 8 1/4 in either stiffly erect or

somewhat loosely, each branch subtended by narrow lf.

8-8-30 Aspidium novebarasense Davenp
Aspidium cristatum Sw
Asplenium Filix-femina Bernh
All with sp. Road east of Highlands Camp by marsh.

8-9-30 Lactuca apicata, Hitchc 1865, B v B III 321 Fl v ft
From Tom Gillis H.P. Stems lf conspicuously projecting beneath, sparsely hirsute & generally glabrous

8-9-30 Aconitum
Fl v young fr. Cult. Mrs. Mc Isaac. See B.M.C.P. 284. The hand-some dark blue kind so frequent in Nfld. Inf. branched below. Helmet 1.3-1.5 cm broad back to front and about 1 cm high (measured about middle side where short teat. Has beak-like front & visor

8-9-30 Sedum Telephium L B M & C P 321 acc S. purpureum Tausch 4443, V.S. Triphyllum S F Gray B v B III 307 Fl. Cult. Mrs. Mc Isaac. Erect. Lvs broadly flat or thick, alt. toothed Fls rosy pur. Cyme large ● fls. Stamens 8 compound. ● as long as ● petals

447 = 227
8-10-30 Salix

Same as A 6/4/30. Spec taken from tree at SO. east corner of fence just NO of little Bridge on Wm Cowles hay-road Rt bank Baccharis. Twigs downy. Lvs firm leathery leathery dark green above very glaucous & veiny glabrous, oval, acute, subcordate at base. Largest lf 3½x2 in. Finely but not entirely regularly toothed all around with incurving gland tipped teeth. Petioles reddish & downy like twig. Stipules sometimes large (to 8 mm) almost semi-circular, sometimes small & often lacking even towards end of twig. When present gland toothed & densely glandular at base. Petioles with or without a gland on each side at base. Lf or with gland on midrib only. These glands sessile, stalked or with foliaceous stalk.

Note Salix B v AA of 6-4-30 Not collected 8-10-30. All willows in this region as well as AA the same.

448 = 235

8-10-30 Salix

Same as *C 6-5-30. Twigs puberulent even on less recent parts. Lvs firm, oval to obovate obtuse, acute, narrowed to rounded at base entire or wavy edged with low distant glandular tipped teeth, edge slightly revolute; glossy dark green & leathery lasting above but (20x) showing a few hairs. Beneath lvs conspicuously reticulate veiny bearded & mostly lasting with adherent white hairs on glaucous background. Lower lvs only leaves seen. Largest 4 23/4 x 1 3/8 in, petiole 1/4 - 3/8 in. Stipules when present small with glandular tips. Plaques from which lvs fallen rather conspicuously projecting

Considered S. rostrata Richards 1836 = S. Bebbiana Sarg. Bull 599

449 = 236

8-10-30 Salix

Same as D 6-5-30. Clump of C.

450 = 237

8-10-30 Salix

Same as E 6-5-30. Clump of C.

451 = 238

8-10-30

Same as F 6-5-30. Thought b/s perhaps same as A but twigs instead of red-brown v def pubescent as in A are olive drab v lark glaucous (but have puberulent line upward from axils of lfrs) v lf. Lvs about same texture as A, dark green above, glaucous beneath, glaucous elliptical or oblanceolate, tapering to acute apex and to rounded base. Teeth much as in A. but mid rib conspicuously yellow-white (not reddish at base as in A. Petioles slightly reddish v puberulent also sometimes with 1 or 2 glands just below lf (perhaps those really belong to lf) Largest lf 3 x 1+ in.

452 = 239

8-10-30

Same as B 6-5-30. Clear of A. inc. glandular stipules v puberulent twigs Lvs narrower. Very new bus this v surfaced with red.

453 = 240

8-10-30

Same as H 6-5-30 Clear of F. Lvs often broader than F, largest 4 x 1½ in, almost obovate with tip more

abruptly base more broadly rounded than F.

454 = 241
8-10-30 Salix
Same as J 6-5-30. Lf like ~~BQ~~ BU Fl ~~6/24~~ 7/24 and EQ 7/31. Twigs light green, glabrous. Lf with only few white hairs beneath but so very glaucous it looks pubescent to eye. Badly infested with gnat that curls edges of lf.

455 = 242
8-10-30 Salix
Same as K 6-7-30 Char. of A. (Lf has some disease which speckles it with dark spots)

456 = 243
8-10-30 Salix
L of 6-9-30 Char. of F.

457 = 244
8-10-30 Salix
M of 6-7-30 Char of A.

458 probably = 245
8-10-30 Salix
Prob N of 6-7-30 Char of F except that tips of green twigs are densely white pubescent as are upper sides of petioles of younger lvs. Do stipules.

8-10-30
stipules (See 6-7-30 for irreg glands)

459 possibly = 245
8-10-30 Salix
Poss. N ♂ 6-7-30

460 possibly = 245
8-10-30 Salix
Poss N ♂ 6-7-30

461 possibly = 245
8-10-30 Salix
Poss N ♂ 6-7-30.

462 = 246
8-10-30 Salix
O ♂ 6-7-30 Trivoglus lilac A except lvs all smaller.
No stipules to flowers.

463 = 247
8-10-30 Salix
P. ♂ 6-7-30 Char ♂ A

464 = 248
8-10-30 Salix
Y ♂ 6-7-30. Char ♂ A. Lvs infested with disease which shows itself in tiny dark red nodules.

465 = 249
8-10-30 Salix
Z ♂ 6-7-30 Char ♂ F.

466 = 250
8-10-30 Salix.
Q ♂ 6-7-30 Char ♂ C. D v F.

467 = 251
8-10-30 Salix
R ♂ 6-7-30. Young twigs not quite glabrous & might be mistaken for F, H, L, N, Z but petals more distant & less regular & if more pointed at base. Stipules sometimes present. Some young twigs infested with a scale ~~~. Cfd. with Salix ♂ 6/2 and 8/4 thought in June to be poss. the same No char assures their identity. Lvs usually obovate, abruptly acute & narrowed at base.

468 = 252
8-10-30 Salix
S ♂ 6-7-30 Char ♂ A as to stipules with a little same disease as Y.
Twigs not pale reddish as in A, more like F.

469 = 253.
8-10-30 Salix
T ♂ 6-7-30 Stipules glandular as in A. Twigs purplish only at tip. One has scale ~~~ as in R. Young lvs [redacted] thin slightly [redacted] reddish [redacted]

470 = 254
8-10-30 Salix
U of 6-7-80 Clear of A.

W 471
8-10-30 Salix
Not collected. Foliage only. Young shoots (persistent last yr) at west end of Logan where Catanda. Collected because the young lvs had the downy reddish lobe of C 6-24-30. The large stipules are glandular at base as in A & lvs like A. Young twigs reddish but pubescent only above lf-axils. This & S. bring up question whether the A series & the F series do run as all the same spc.

472
8-10-30 Glyceria borealis Batchelder 9160 = Panicularia — Nash BVBI 266 Marsh east side RR at bank Bacadia Bks. Spikelets 12-14 mm the axil one sessile, pedicelled but the ones along branches with pedicels of 3 mm or much less. Lemmas 3.5-4 mm, equal & to palea. Lvs 4 mm wide, usually flat. Branches (in early fl) all appressed and many spikelets have upper florets fallen (the rachis disarticulating evidently just above each flt) or that only glumes & 1 or 2 lower flts left. Lemmas glabrous & even the nerves only very slightly "hispidulous" (see 8-22-30

473

8-10-30 ? Juncus longistylis Torr. (H) B&B I 494
Fr almost ripe. Rt bank Baldwin little meadow
below hay road lot & nearest to Camp. Infl. terminal,
lf flat & grasslike with entire auricles & sheaths
covering more than half of st. (not J. Gerardi be-
cause sepals not obtuse) also flat as well as
can be determined e.prophyllate. Stamens 6,
capsule mucronate 2x per th. sts. St 2ft+ tall from
creeping rootstock. Lvs flat 2-3 mm wide with
mid-rib (perhaps not "well defined" (B&B) & other veins
Perianth about 5 mm long, its parts with narrow brown
centers & broad hyaline margins (centers brown
when viewed from inside but grayish outside)
Capsule about 4½ mm (not counting remains
of style. Seed perhaps ¾ mm long.

8-10-30 Juncus balticus Willd var littoralis Engelm
(272 mc in J. balticus Willd B&B I 468 Fr. With above.
Seeds have small greenish projections at top which
may be end of "loose coat" (B&B) St. occasionally
spiral.

474

8-10-30 Hydrocotyle americana L. (611 B&B # 650
Flr young fr. Left bank Robinsons Brook below RR
bridge. Frequent.

475

8-10-30 Epilobium

Fl v minifs fr. Marsh at. bank Barachois east side P.R.R. at bridge. St. with short incurved hairs and are pods, pedicels, midrib fl v beneath V (in lesser degree) v above. About 15 in. high branched v. Upper whole length. L v sessile narrowly lanceolate acuminate, acute at base, entire (but has a little sinuate) edges basally revolute. Pedicels 2.5 cm, pod v 6.5 cm. F. deficient. G 586 seems indicated but see B & B III 390 Fls violaceous. Lateral nerves of v visible but not strong. Seems to have very slender underground runners.

8-10-30 Mimulus moschatus Dougl. G 724, B & B III 191 Fl of fr. Left bank Robinsons Br., ditch by house.

8-10-30 ? Galium palustre L. G 849, B & B III 365 (see 7-31-30) Fl 3 mm wide v 4 whorls in cross section. But note sterile shoots overtopping fl as in ill of G. labradoricum Wiegand B & B III 364.

8-10-30 Senecio Jacobaea L. G 853, B & B III 543 Fl. R.R. track so. end Robinsons Bridge. (See 6-5-30)

8-10-30 Polygonum tomentosum Schrank B 366 = Persicaria — a Bicknell B&BI 667. Flo fs. Meadow left bank Robinson's Bk L vs scabrous with short appressed hairs on midrib beneath & margins and (20X) gland dotted beneath, only lower ones with slight but def. signs of "flocculent tomentum" Sheaths thin, striate, truncate & sometimes very short ciliate. Upper parts of st & ped with short stalked glands. Calyx more or less gland dotted. Stamens 6. Achene dark & shining, slightly biconvex; 2.5 mm, sides concave, ~~the other more nearly flat.~~ Sepals greenish white. Inflo. Compound with general effect much like P. Persicaria. Lvs sometimes with dark spot above. Not like ill P. lapathifolia. S.F. Gray 13 & 13

8-10-30 Polygonum Hydropiper L. B 361 = Persicaria — Opiz B&BI 670. Flo fs. Meadow left bank Robinson's Bk.

476

8-10-30 [See #906, 6-20-37

Flo fs. Left side Robinson's Bk near end of foot-road in almost stagnant water under little bridge. Stems dark, at, entirely submerged. Lvs floating, glabrous very like ill of Ranunculus Purshii. Richards B&BII 105 & like desc. # 395. St. rooting at nodes. Lvs mostly rounded or truncate at base, largest 4 of about 2 cm diam but most are smaller.

477

8-10-30 Potamogeton filiformis Pers. # 77 B&BI 86 Fr. with above. (Sec # 79 8-26-29) Pedunles ~~wrb~~ sheathed by lvs. Qss in # 79 sheaths of stipules 6-7 lines long

A

8-10-30 Potamogeton

Fr. With above. (small spec. only col.) Upper lvs rounded or subcordate at base & obtuse with blunt tip. 5-17 nerved, largest 2 x 1 in. others hardly more than ½ as large. Stip. (bleached & perhaps ready to fall) almost as firm as upper lvs, lanceolate, tapering to slender petiole 2 x 3/8 in. Pedunle much shorter than sp. Consider P. ~~Robbinsii~~ Robbins # 72, B&BI 76

8-10-30 Hippuris vulgaris L. # 605 B&BII 613 Fls & fr in all stages. With above.

8-10-30 Potamogeton alpinus Balbis # 72, B&BI 77 With above, some ½ Floating lvs. 16-20 nerved, lanceolate or narrowly ovate, largest 2 x 3/4 in acute to obtuse, narrowed at base into flattened petiole 1¼ in long. Floating lvs sessile, lance-oblong, 3 3/4 x 7/8 in about 11-nerved.

478

8-10-30 Potamogeton perfoliatus L. G 74, BVBI 80 or perh P. bupleuroides Fernald (Sea 8-23-29) Flvfr. Mid above. Low somewhat crisped, young ones more tender seem to have 3 lateral nerves stronger than others. Pedundes not "slender". Style prominent but not "slender". Largest 4f in long, mature smaller

8-10-30 Impatiens biflora Walt G 560 BVBII 440 Fl. Robinsons & Baraclois Blo. (No I. pallida seen 8-10-30)

8-10-30 Agrostis alba L. var maritima G.F.W Mey G 132 = A. maritima Lam BVBI 208 Left side Robinsons Blk in willow meadows.

8-10-30 Salsola Kali
Fr old enough to show wings on sepals plainly Robinson's Blk Baraclois.

479

8-10-30 ? Scirpus pauciflorus Lightf G 189, BVBI 339 Fr. Rt side Baraclois Blk in sandy edge of stream and below "hay-barn" lot 2½-3 in high very slender St terete but slightly striate in small tufts a few sterile sts & 1, 2 fertile at perh from running root stocks. Head 1, terminal bractless ● scales 4- ● 5, all clear ● ing fls.

8-10-30
fla (fr. not developed in all.) Scales brown with the lower ones obtuse & with narrow hyaline edges, the upper ones acute with wider hyaline edges. Achene 2+ mm long 3-angled, beaked (the beak continuous with one side which seems flatter than the others.) Achene grayish brown, not smooth. Style 3-cleft. Leaflets, the upper sheath almost truncate but with small blunt point on one side. (See 8-25-30

8-10-30 ? Aster foliaceus Lindl (A) B&BIII 422. Fl. Left side Robinsons Rd below R.R. bridge beside logan not far from Salix C. And what seems the same about 6 in high & few-fld by fence west end meadow) Salix Ord?

8-10-30 ? Potamogeton heterophyllus Schreb G 73 BOBI 78 Fl. Pond in meadow N. side Beaches about by above camp. generally aquea with disc. Not more than 1 fr maturing Has not the fly branches in spec of 8-31-30 #82.

8-10-30 Habenaria hyperborea R.Br & BOB = Limnaelia — Rydb-BOBI 554 Rt bank Beaches, 1st meadow above camp. Unripe fr & without flrs. Cfd H. dilatata near Highlands Camp. N.B. Stigma seems also to have

"trowel shaped beak" as in X delolata (B&B) perhaps has def. See #118 7-15-29 same locus.

480

8-10-30 ? Equisetum variegatum Schleich & B&B I 42 Tube def 8-17-30. Bardelias Blk st banks almost surely with Juncus longistylis

8-10-30 Juncus tenuis Willd A 270 B&B II 470 Fr. Rd st side bet Crabtree St. & Highlands bridge. Flrs 3.5 mm seeds. 3 mm. Perianth parts only barely reaching capsule.

A

8-10-30 Juncus

Unripe fr. Near above. Either J. effusus L. or J. conglomeratus L. A 273 B&B I 467 Infl 7/8 in Perianth 2.25 green with hyaline margins, lanceolate. Sepals 4 mm long, acuminated petals a trifle shorter with mid-rib slightly projecting (Perhaps there is a stripe bet. the green & hyaline parts on sepals & petals.) Prophyllum (see A) broadly ovate very abruptly pointed & almost awned. Capsules 2+ S. def. ovate little longer than perianth, 3-angled, apex not mucronate. Stigmas seem sessile & almost so.

B

8-10-30 Juncus

Fr. Near above and just the same. Perianth parts 2-2.5 mm. Capsule almost as long. Perianth brownish. Sem. look more congested than A. perhaps due to capsules filled out.

8-16-30 Epipactis repens crants var. ophioides 1A Keaton Edaphy ff Survey bet. school house & bridge.

8-16-30 Juncus

Fr, seeds falling. P'd east of Highlands Camp at edge of swamp same spot as 9-5-29. Seems same as above St. Gall there 3 spec. seems same striate but not "distinctly ribbed" below infl.

8-16-30 Hypericum virginicum L Gl 575 = Triadenium — Rf Bv & I 5:37 Interspf. Road east of Highlands Camp.

8-16-30 Cinna latifolia Griseb Gl 137 Bv & I 202. Interspf. Tom Ellis meadow bet. woods & house. Panicle 15 in long, heavy & drooping, purple violet (from scarious margins of scales) 4 to 5 mm long, scabrous. Elevated 4 mm inc. the ½ almost 1 mm awn. Ligule of sheath & rachilla prolonged behind palea. Flumma seems set somewhat off center meets almost at tips the back overhanging. Interspf grain has whitish bulbous appendage (? base of palea) Only I never distinguished in palea which like

other scales is purple.

8-16-30 Aster paniculatus
Fl. Tom Gillis' woodpath. H.P.

8-16-30 Aguinonia striata Michx G 494, B&B II 368
Fl & unripe fr. Tom Gillis H.P.

8-16-30 Eleocharis palustris R&S G 188, B&B I 314 Fr.
Rt. bank Highlands Pond near outlet. Rootstocks as ill (B&B).

8-16-30 Scirpus subrotinctus Fernald G 193 = S. microcarpus Presl B&B I 335 Fr. Rt bank outlet of H.P. shortly above Gales.

8-16-30 ? Dactylis
Fl. Tom Gillis hay field nearest Gales H.P. Inflor. has general structure & shape of D. glomerata L # 154 B&B I 307. But notes: st. stout slender 15 in. high, geniculate at its one node. (Two not present) Infl 1½ in & delicate clad with memory of D.g—. The axes of infl (at least ● lower ones) ● bear con- ● specuous

8-16-30
Conspicuous enlargement at pedicel. Floret 4-flr, the rachilla prolonged as pedicel tipped with scale behind uppermost palea, lemma, briatly ciliate above middle but less so (or not at all) the lower awnpointed palea 2-toothed, ciliate on the 2 keels.

481
8-16-30 Equisetum fluviatile L # 53, B & BI 51 Sp. H.P. right side near outlet. Rootstock hollow.

8-16-30 Trillium Cernuum L # 294 B & BI 526 Fr. Meadow rt side H.P. towards outlet. Fr red. Charlie Legge at F-L-P. pointed this out as "punkins" and said he ate the fr.

8-16-30 Scirpus occidentalis Chase # 112. B & BI 332 Fl. Highlands Pond.

8-17-30 Vaccinium pennsylvanicum Lam # 639 = V. angustifolium Ait B & BII 901. Fr. Brought in by Allen from behind Highlands Cabin. A form with fr. black & without bloom seems exactly the same except for more yellowish & tinged with red.

482
8-20-30 Habenaria orbiculata Torr. & G 309 = Limnorchis orbiculata (Torr.) Rydb-BvBI 555-Fl to without to identify (but see 7-14-30) Rd H.P. to Butter Blk on wood path to south. The 2 maturing Capsules erect. (See 7-14-30.

483
8-20-30 Habenaria obtusata Richards & G 309 = Limnorchis obtusata (Richards) L. Wiley — Richards BvBI 556 young fr with above. In group 3 about 10 spec all leaf & lacy bract (or small lf) slightly above middle of st. Pozo N Clave Matta.

484
8-20-30 Aster Radula Ait & G. 806 BvB III 425 Fl H.P. on rd to Butter Blk. Note: st angled & slightly ridged in lines decurrent from edges of lvs. Rest stem & buds horizontal its young shoots purple.

485
8-20-30? Solidago uliginosa Nutt (See 8-8-30) H.P. on rd to Butter Blk.

486
8-20-30 Spiranthes Romanzoffiana Cham & G 814 = Ibidium strictum Hooss BvBI H.P.

487

8-20-30 Scirpus atrocinctus Fernald Rh 195 (See BvBI 337. H.P. Rd west of camp. Pedicels of lateral spikelets very distinct (to 9 mm long.) Involucral bract of involucre blackish (vs bright green rather stiff, to 6 mm wide, distinctly rough on edges & mid-rib towards tip, less so below. Culms erect & smooth above upper half but dull & rough just below infl. 2 mm on a side. Spikelet 5 mm long. Involucre 6 in, lowest bract of involucre about 5 in. Scales reddish suffused with black.

488

8-20-30 Scirpus cyperinus Kunth var pallens Fernald Rh 195 (p 85) in same spot BvBI 337) Fl. Rd west of camp N.P. None of spikelets pedicelled (all in groups of 2-3 (or perhaps more) Spikelet 3½ mm long (looks much smaller than above. Involucre & involucral bracts black as in above. Land other vine plant looks much the same. Perhaps a less vivid green, less a little waxy appearance & tips of glumes flat. Scales brownish suffused black

489

8-20-30 Scirpus

Fr. on same wood road as Habenaria orbiculata. Has dry a dense spherical or somewhat irreg ball. Base of involucre black and otherwise perhaps most like above. Must be S. cyperinus Kunth var Condensatus Fernald or S. atrocinctus Fernald var brachypodus Fernald Rh 195 which don't seem clearly distinguished in descr. Spikelet about 5 mm. Scales most like above.

8-20-30 E pilobium
Cuspe fe. R'd west of Highland's camp. Prob same as 8-10-30 but branches from axils of low stalky small.

490

8-20-30 Galium trifidum L & G 749. BvB III 364 Fl v fe. H.P. R'd west of camp. Cyme axila solitary (G) & in 2's (BvB) & terminal in 3's, in no case 2 on same pedencle as in upper left hand part of fell (G). Pedicels capillary, scabrous and in fr strongly arcuate & longer than lvs. (infl. shorter than lvs & more nearly straight

491

8-20-30 Glyceria canadensis Trin & 158 = Paniculata — Kuntze BvB I 263

8-20-30 Osmunda claytoniana L. G. BvB I 8
No sp. Steriles from only at junction of 1d west of H. Camp & 1d along Butter Bk also in glade bet. Mc Kenna's Horse & Hypericum canadense. Pinnules, round at apex & much broader than in O. cinnamomea where mostly obtuse.

8-20-30 Oroclea sensibilis L & G 45; BvB I 11 Steriles from H.P. Note the roughened edge.

492

8-20-30 Carex

Fr. N.P. on rd to Butter Bk in sphagnum on no. side about halfway. Strongly suggests C. Crinita Lam var gynandra Schwein & Torr 2 330 = C. gynandra Schwein Bv VBI #25. but achene (perh bentivalue) are strongly excavated & pinched together on one edge (or at least hollowed out on one side) giving effect much like ill. C. Tuckermanii Dewey 4 356.

Culms many in clumps. 3 ft high. Basal lvs reduced to firm, acute, reddish brown sheaths scarcely if at all fibrillose. St lvs. ± 10 mm wide, rough above & on edges & midrib beneath, otherwise smooth beneath, sheaths short bicipital & ~~smooth~~ long to touch. Culm sharply 3-angled & rough, ± as long as lvs. ♀ spikes ~~3~~ 4 on slender drooping peduncles. Spikes 1½-2½ cm long × ½ cm wide (exclusive of spreading tips of scales) Lowest bract sheathless much overtopping infl. 4-7 mm wide. ♂ spikes 2 terminal on slender peduncle the uppermost 1¼-1¾ in and another about ½ as long as sessile shortly below. (In one spec the lower ♂ spike was partly ♀) Often ♀ spikes ♂ at tip or sometimes not. In ♀ spikes scale almost white at base, light brown above 4.5 mm long of which 2 mm is rough awn rather like ill. C. Crinita B v B., body of scale 3-nerved, tips spreading. Perigynia ovoid 3.3 mm high, smooth, nerveless, beakless light green at tip almost white at base. Culm. Achene brown, ridged at base contracted

by deep fold inward on one edge

493

8-20-30 Hypericum canadense L. #576 B VIII 336 ff/fr. H.P. rd to Butter Bk same place as 8-19-30 3-6 in high. Stamens more than 12, usually 15 even one case 21.

8-20-30? Carex Wederi Retz var pumila Fernald #346 inc in C. — B VIII-1 #39 F-R. Rd west of Highland Camp with Hypericum Canadense. Lobed bract & pericarpium & scale like all B VIII. 3½ to 6 in high St. comparatively short. Note (see #318) Lowest involucral bract has sheath 2-3 mm

8-20-30 Sphagnum
Fruiting capsules observed & studied (see Dunham 23

494

8-22-30 Utricularia intermedia Hayne
737. BVB III 228 Fl. West side Highlands Pond well
ill BVB. Yellow lips & palate with red-brown lines

495

8-22-30 Eutricularia aquatica L. # 436 BVB II 159 West
side N.P. not far from camp. About 2 in high. Does not
like ill. BVB but alt. Most spec have only 2 fl (1 with 3)
In 2 tube of pair one had 3 petals & 5 stamens, the
other 4 petals & 4 stamens. No more than 2 seeds
in each cell of pod. Ribbed & unequal. Seeds not smooth.

8-22-30 Juncus canadensis J. Gay # 274, BVB I 480
Fr. West side Highlands Pond. Seed fully 3 mm.

496

8-22-30 Eriocaulon articulatum Morong # 261 = E septangu-
lare with BVB I with 454 N.P. Fl.

497

8-22-30 Lobelia Dortmanna L # 790
Fl & unequal fr. N.P.

498

8-22-30 Najas flexilis Rostk & Schmidt # 79 = Naias —
BVB I 90 Unequal fr. & remains of 1st flower.

499

8-22-30 Juncus pelocarpus Mey ♀ 394 BV BI 476
Edge H.P. above m. flat, camp. common along west
shore. No fl. or fr., infl. all proliferous. Prot. stout
slender, horizontal, bases of (leaf-)sheaths rather
enlarged at base. To 8 in. high, at 5 very slender

8-22-30 Juncus militaris Bigel ♀ 395, BV BI 479
H.P. near Camp. Ident by rotted basal sheaths &
submersed lvs as plant eaten by cattle (See 9-3-29

500

8-22-30 ? Eleocharis
Fl. H.P. ~~Bot Wks~~ Subularia, hence entirely sub-
merged. 1½ in. high with stiff upright capillary
sts which seem terete. Culms in small tufts
perhaps from filiform rotted basals, few fld.,
compressed 2½ mm. long. Scales with green mid-
rib & sides purple from many red lines. ~~Stigmas~~ Style
3 cleft. Stamens 3, no sign now of tubercles or
bristles. Anthers about ¾ mm. or much shorter
filaments.

501

8-22-30 Hypericum virgulaeum Vaugelmanianum (See 8-16-30)
H.P. west side. Immat. fr.

8-22-30 Sparganium diversifolium Graebner var acaule Fernald & Eames. N.P. wet side Umiujaq fr. 3 ♀ heads all acaule

8-22-30 Glyceria borealis Batchelder (See 8-10-30) Umiujaq fr. N.P. Pedicels fall except axillary heads short da 8-10-80.

502
8-25-30 Solidago graminifolia Salisb ♀ 797 ~~B 18 III~~ = Euthamia — Nutt Bo B III 398 Fl. Crabbes R. along P.R. west end only the 2 spec. Cl. noticed.

503
8-25-30 Lysimachia terrestris BSP ♀ 645, B & B II 112 Fl. Crabbes River little pond in front of Mr. Wis 2nd cabin. Note base of corolla inside & filament tube glandular.

504
8-25-30 Hypericum elliptic. Hook ♀ 574, B & B III 532 Umiujaq fr. Crabbes River hillside bet. Wis 2nd camp & bridge To 6 inch high. St & l'ed below & rather dif. 2 edged above Cymes 1-3 fld but the solitary fl (or the lateral ones when 3 fld) bracted with tiny bud (flr ♀?) in axils of bracts Capsule darkred, 6-7 mm long (ca. 3 lines) not "very" (H) 1 cm, with 3 parietal placentae. Seed about .7 mm

cylindrical, mucronate, sheathed
part would be called "striate". Lvs as dead, assumed
an appressed position before putting in press.
At first sight seemed nubile H. elipticum as
collected at Passaconaway.

505

8-25-30 Tofieldia glutinosa Pers 4283 = Triantha —
Balan BUBI 486 Fr. Crabbes River left side below bridge in
various places down to 1/2 2nd cabin (Remembered as
Col. in this vicinity 9-16-27 but evidently not recorded)
Foliage not "pubescent" (BIB) St & infl viscid with sticky
glands but not "pubescent" (BI). Appendages at one
end of seed shorter than seed but at the other end
more than twice as long as seed.

8-25-30? Scirpus paucciflorus Lightf (See 8-10-30)
Fr. Crabbes River left side below bridge. Seems same
as 8-10-30. Col. culms incidentally with other things.

506

8-25-30 X yris montana Rich 4362, BUBI 457 Emerged fr
flo all withered. Sm mark with Bartonia.
(a) Lvs to 4 cm & scapes to 11 cm. Dark bracts at base, ovule appearing bas[illegible]
(b) Lvs to 10 cm, scapes to 20 cm. Bracts at base hardly over
lapping base of lvs. there being a bit of at 1 cm bet. Axils of
lvs esp in sterile plants with conspicuous ? bud (bulblet
like). If this is ● also in (a) ● it is less ● conspicuous.

507

8-25-30 Bartonia iodandra Robinson & 660 BvBIII 17 Fl v unique fr. Marsh near Crabbes Sta. 20 mi. S. Jct to Crabbes Village. St. brown-purple. 13/4 in v 1-fld to 5 in v several fls but never branched. Fls 6 mm long or less. Corolla lobes rounded rather than "acute" (9). Peduncles (a. f. s.) to 13 mm. but usually less than 10 mm. ascending v sometimes "curved" &. Anthers slightly touched with purple. Corolla whitish-yellowish. Bordered with purple.

508

8-25-30 Betula nana L. BvBI 612 (H) Fr. v remains Dr aments. On marsh with abor. frequent all over marsh, less than 1½ ft. high. Fruiting bracts have only 1 seed in axil. & aments. sessile, erect. 1 cm long or shorter. Not wider than the entire fract. Young twigs densely puberulent. Stipules darkv very rowly on margins.

8-25-30 Juncus pelocarpus E. Meyer & 274 BvBI 476 Fl and fascicles of lvs. Various places in fld from Crabbes Sta. Towards village v perhaps along left bank Crabbes River. Peninsula beetle.

8-25-30 ? Carex Michauxiana Boeckl. G 254 = C. cabecta Bailey B v B II 431 (See 7-27-30) Fr. falling. In marsh by side of Betula nana. Seems same as 7-27-80 ex cept perigynia very slightly rough on beak as ill B v B.

509

8-25-30 ?? Solidago uniliguiata Porter G 793 B v B III 392 Fl. Prd in marsh with Betula nana, if not, along rd. 17 in high & vg gone from lower part of st, those remaining serrate lanceolate serrate or entire except for minute curved colorless hairs which make them rough on edge. Largest lf 3½ in long.

8-25-30 Vaccinium macrocarpon Ait G 641 = Oxycoccus macrocarpus Pursh B v B II 705 Fruit ripe fr. Marsh with Betula nana. Frequent & unmistakable.

8-25-30 Anaphalis margaritacea B & H G 833, B v B III 458 Fl ♀ & ♂ Crabbes bet Jos Hulana & River. Pappus of ♂ fls is slightly thickened at summit with more conspic. hairs

8-25-30 Juncus longistylis Torr G B v B I 494 Fr. Crabbes Run ● left Rd ● below RR ● bridge.

510
~~509~~ = 361
8-25-30 Salix
Same as I 6-11-30.

511
~~510~~ ~~510~~ = 362
8-25-30 Salix
Same as II 6-11-30. Young twigs yellgreen puberulent with white hairs & shorter dark ones intermixed. Lvs elliptic acute to acuminate, somewhat narrowed & rounded or ~~somewhat~~ cuneate at base. Petiole coarsely & irreg. glandtipped to the dall around & rounded in back as to curve upon & plane of lf & forming a thickish margin to lf. Lvs glabrous, glaucous beneath, green & slightly shining above. Lvs 3½ x 1¼ in. Stipules often present to 10 mm long glandular at base. Lvs with small red subulate crenules

513
~~512~~ ~~511~~ = 363
8-25-30 Salix
Same as III 6-11-30. Pet same as C.D.E 6/5 & 8/10-30
This none of lvs as strongly rugose beneath as some of C. D & E.

513
~~512~~ = 364
8-25-30 Salix
Same as IV 6-11-30. Twigs yellowish & glabrous. Petiole mostly puberulent on upper side. Lvs ~~mostly~~

oblanceolate, glabrous, glaucous beneath, yellow green above. Teeth laniculiate & growing indistinct towards base. No stipules. Leaves affected with berry like reddish excrescences.

514 = 365
8-25-30 Salix
Same as V 6-11-30. B&B Same as II

515 = 366
8-25-30 Salix
Same as VI 6-11-30.

516 = 367
8-25-30 Salix
Same as VII 6-11-30

517
8-25-30 Potamogeton pusillus L G 96, B&BI 84 Fr
Little pond in front of No 2nd Cabin left bank Crattes River.

518
8-25-30 Polygonum tomentosum Schrank G 360 (See 8-10-30)
Crattes by house bet Station & Corner to Crattes Village Lilac
8-10-30. Note Calyx not punctate but glandular

8-25-30 ? Aster foliaceus mill (A) B v B III 422 Fl. R'd bet Crabbes Sta v Bridge on way to Crabbes Village. Agrees well desc B v B v #65 (8-6-29) v #64 (8-9-29) But rays white. Pubescence def. in lines on main part of st.

8-25-30 Prunus pennsylvanica L fg #98, B v B II 32 Fr. Crabbes River left bank just below (a little above) H's 1st camp. See 6-28-29 #22 v 7-15-29 #38. Petioles often with gland at top v sometimes with 1-2 teeth like those on lvs. Teeth of lvs rounded on back, the minute point-ing tips often dark. Pedicel 1/8 in

8-25-30 ? Pyrus arbutifolia L f v. atropurpurea Robinson 8 v 58 = Aronia atropurpurea Britton B v B II 291 Fr. Marsh with Betula nana. Lvs permanently (tho not densely) wooly beneath, certainly not glabrate (See 8-9-29 #21) Fr. lightly fomentose. Persistent visible at top of fr. Lvs. with dark cuticle (Lauson) on mid. rib above v tips of teeth dark.

8-25-30 Potentilla tridentata Ait. = Sibbaldiopsis 9483 — Rydb. B v B # 262 Fl. R'd bet Crabbes Sta v C. village. Common Barachois-Robinsons v also at Steeles Mills Crossing.

8-25-30 Calamagrostis Pickeringii Vasey #1134
BvBI 208 Fr. Marsh and Betula nana Impl. narrow ♀
branches appressed. Awn bent & exerted only a little
sidewise being no longer than lemma

8-25-30 Limpatiens pallida Nutt ♀ 5-60
Fl. Crabtree River left bank at Wis 3rd camp To date clear
northern in Nfld except at Crabtree River.

5-19
8-25-30 Carex
Fr. In little pond in front ♀ Wis 2nd Cabin left side Crabtree
River. Poss either C. Paleudo-Cyperus L #1251 BvBI 437 or
C. hystericina Muhl. Culm about 3 ft sharply 3 angled
& rough. 2 vs. 1 cm under & acuminata, long, the
upper one as well as the similar bracts overtopping culm. ♀ spikes 3-4, all near top ♂ culm, slender
pedicelled & drooping or pedicels much elongated. ♀
spikes all ♀ or ♂ tend ♂ towards tip, cylindrical 3.5-
X 1 cm. ♂ spike 1, short stalked or nearly sessile. Perigynia
glabrous with about 20 thick raised nerves. Perigynia
6 mm long tapering to 2-toothed beak, scarcely inflated
very firm. Scales acuminate awn broadened
at base, as long as perigynia or (at base of spike) shorter.
♂ scales about 7 mm long the upper 3 mm being
a rough awn. Perigynia rather 3-angled and

8-25-30
3-angled and, while three at base of spikes are reflexed, the others stand at rt. angles to rachis. No sign of stipe other than the ridges (could this be stipe adherent to rachis?) on rachis the tops of which bear the perigynia. Achene 3-angled, not smooth, 2 mm long.

8-25-30 Empetrum nigrum L. #551, B&B II 479 Fr & ♀ with red fls. Note. Fls have 3 petals, 3 calyx lobes & beneath these 3 bracts & beneath these 2 bracts. Bracts connected with fr on remainder of stem

8-25-30 Callitriche palustris L. #550. B&B II 478 Emerged fr. In pond by rt. to 2nd camp. Entirely submersed, about 12 in high, lvs all linear $\frac{15}{20}$ X .5 mm. Stigmas deciduous but fr. (at S.) about as wide as high.

530
8-25-30 Potamogeton epihydrus Raf. #72 B&B I 77. Very young fr. In pond with above. Only 1 small floating lf but easily identified by stripe down center of submersed lvs.

531
8-25-30 Juncus alpinus Vill #377 B&B I 478 Fr Rd Crabtree Sta. toward village on left bank Crabtree River

BSP coll. incidently with something else — perhaps in marsh.

8-25-30 Abies balsamea Mill (Sec 6-11-30) Emerged fr. Cattle id at entrance to Jos Hulans. Scales now cover tips of bracts. Scales def. rusty pubescent on exposed portions Seed & wings glabrous, dark purplish, 3 mm overall, wing 6 mm wide.

8-25-30 Picea canadensis BSP (Sec 6-11-30) Emerged fr. Cattle id on Crabbes Rd. west of Jos Hulans. Seed & wing 7 mm overall, wing 4 mm wide, pale straw color.

8-25-30 Picea mariana BSP. (Sec 6-11-30) Emerged fr. with above. Seeds & wings like P. canadensis except wing with minuted dots of purple. Bracts of scales resinous pubescent in line between the two scales. In both Piceas bract under scale much less conspicuous than in Abies

8-29-30 Matricaria suaveolens Buchanan Rydb
= M. matricarioides Porter B&BIII 521 Fl. Colby Allen
Mc Isaac, weed on his land Crabtree Ck. 15 in high, very
much branched & lfy. Fls green 4-5 lobed. Pineapple odor
very distinct esp in heads.

8-29-30 Polygonum aviculare L. & 358 B&BI 661 Flb fr.
Col. by A. McW. with a tor. Can be nothing else the mature
sepals are 2.5 mm long; br to 2.5 cm long v mostly ob-
tuse. Sta. to 2 ft. Stamens 7-8

522 ?
8-31-30 Polygonum aviculare L.
Flb fr. coast just so I mouth of Butter Ck. Cld above Pros-
trate. Achene not exerted. Seems to dif. chiefly from
above in that the bright pink tips of calyx are more or
less flaring in fr. & achene concave rather than
plump on sides. Stamens often 7.

8-31-30 Elymus arenarius L. G 170 B&BI 290 Fr. Near
above.

523
8-31-30 Eleocharis
Fr (perh will not mature) mouth of Butter Ck in sand

by waters edge. Culms filiform to 6cm high, striate. Heads broader than culm. Culms seem tufted & sometimes plainly from slender horizontal rootstock. (Perhaps tufted effect is result of plants growing bet. stones.) Rootstock brown & shining. Fertile culms rise from it several from one point. Sterile culms sometimes single. Sheaths brown at base, close green above (or darker at very tip) ending in a blunt 1-ridged point on one side. Heads 5-8 mm long. Scales purple with hyaline, whitish edges & tip, acute, the nerve evident almost to tip. Achenes not developed but have much the look of undeveloped achenes of E. palustris R & S, tubercle like ill (2) thro' now 2 sides as achene. 2 stigmas 2-cleft. Bristles 4 downwardly barbed.

~~3334~~ 527

8-31-30 Eleocharis palustris R & S 1785 Br BI 314 Fr. Highlands Pond 2½ ft. high. Cf Gatova. No essential diff found. Culm 1-3 mm diam.

~~3335~~ 525

8-31-30 Equisetum variegatum Schleich 1794 Br BI 42 Near mouth of Butler Br. Flush on E side. Sheaths not "loose" tho' teeth sometimes flaring. Centrum at least sometimes less than ⅓ diam. Rosap.

~~326~~ 526

8-31-30 ? Equisetum arvense

No sp. with above but more common here frequent in vicinity. Rootstock felted with fine brown hairs or when these disappear with broken irregular horizontal ridges. Rootstocks often bear sessile almost spherical dark tubers (about 6 mm diam) like shoots being sometimes from the same point as tuber. This is the simple, solid 8-4 angled Equisetum suggests E. arvense L. Gr. BvB II # 39. But st. only 5-6 ridged with centrum and often rest of st. solid (in seems so 20×). Teeth brown acute to acuminate.

8-31-30 Gentiana mesophila Holm Gl BvB III 9 Last flr v unripe fr. Mouth of Butler Blk. Seed reticulated & faintly corrugated. Waters. Mouth of Butler Blk (See 8-19-29

8-31-30 Gentiana Amarella L. var acuta Hader V659 = G. acuta Michx BvB III 9. Fr. Mouth of Butler Blk (So side of brook at bridge)

8-31-30 Primula mistassinica Michx Gl614 BvB III 708 Mouth of Butler Blk. Capsule seems circumscissile at very top leaving small round hole in end, not splitting

into teeth. Seeds more or less spherical with somewhat flattened sides & slightly winged ridges. rough.

8-31-20 Ranunculus Cymbalaria Pursh = Halerpestes — Greene Bot Bk II 117 Fr. Mouth of Butte Blk. Sff at Jackson 2 mm long x 1 mm wide at top whereas seed is 1 mm long x 1/2 mm wide

8-31-20 Epilobium adenocaulon Hausskn # 597 Bot Bk II Flr young fr. Mouth of Butte Blk 3 in high 2+ flr but other inds like larger spec with autumnal basal rosettes. On sandy bluffs.

8-31-20 Polygonum Persicaria L # 361, Persicaria — Small Bot Bk I 668 Flr & fr. 8 in high, simple, with 1 (only) terminal head.

~~507~~ ? 507

8-31-20 Festuca ovina L var brevifolia Hack # 162 = F. brachyphylla. Fr. Mouth of Butte Blk, sea and bluffs on ? bank. Densely tufted, no rootstock. Branches intravaginal, i.e. issue from within sheath of lf, at top not triangular as in allied lf. Lowest sheath somewhat pubescent, sheaths closed.

8-31-20

Cleard. Culm to 6 in almost equalled by lvs & sterile shoots. St lvs to 1½ in, all lvs capillary involute fasc 2 infl to 1½ in usually with 1 & 2 branches ½ in below main almost simple terminal portion, the branches spreading but all spikelets appressed (not at all like ill BvB. more like ill 2 upper portion of F. rubra BvB) Spikelets 10 mm (mucronate) 6-fld Lemma 5½ mm exclusive awn awn 1½ mm. (these meas. from 1 spikelet only), lemmas smooth

~~328~~ 528

8-31-20 Agrostis alba L. var maritima H.F. Wiprey #132 = A. maritima Lam BvB 208 mouth of Butter Bk Fr. Culm at edges of brook plants with prostrate sterile ~~branches~~ shoots to 18 in long with young branches & roots at nodes None of these plants bore fl. culms but seemed in every other way the same. 529

530

8-31-20 Juncus

Fr. Bluff on so. side Butter Bk near mouth. 4 to 6 in tall by hand should be either J. alpinus or J. articulatus. Cpl J. alpinus 8-31-20. Fls fasciculate pedicels. Seeds a trifle larger. Inf. varying from heads 2 (1 sessile 01 terminal) to heads 3 (1 sessile in axil of 2 branches each with terminal head) to several (1 in axil of 1 or more on branches) Heads few fl. These

may be more than one spec. or all small forms of J. articulata L. G 277, B & BI. 477. Mat or running root stock (prostrate) St. hvs near base in mat. Bract shorter than mfl. v in-conspicuous.

9-31-30 Atriplex patula L. G 368 = A. hastata L. B & B II. 18 Fr. Mouth of Butler Blk by exact. Purple or red.

531

8-31-30 Mentha

Rt for fr. In seepage from spring bluff so. side Butler Blk bet bridge & mouth. Roots with thick underground sts runners. St purple base & tip, rough with rather stiff downward arching white hairs or almost glabrous. Lower lvs small & valinat round, upper lvs ovate to 1 3/4 X 1 1/2 in, rounded to sub-cordate at base, obtuse to broadly acute at apex, the low almost teeth not close together. Lvs firm, rough on both sides with rather sparse white hairs. Petioles distinct 3/4 in or less. (See 9-5-30 for comparison with M. arvensis L. var canadensis Briquet)

532

8-31-30 Triglochin palustris L. G 81 B & BI 93 Fruit fr. Mouth of Butler Blk. Scape 20 in high & vs to 8 in. All about & lower any dif than the slender plant so often collected

533

8-31-30 Carex

Fr. Bluff 200 to 220 side of Butler Bk near mouth. Note. In many cases the perigynium at base of spike bears a slender pedicel at base of achene, this pedicel passes thru perigynium & bears another perigynium with developed seed (usually by the bursting the lower perigynium sometimes thus extending very slightly beyond base of 2nd perigynium. Perigynia at base of spike which do not proliferate as above described (in all cases examined) have a very short member at base of achene which might be rediment of the aforesaid pedicel. Usually 2 or 3. Some of spikes strictly ♀; achenes △, stigmas 3; spikes 2 or more; per. not rigidly tridentate, terminal spike ♂ throughout; lowest tobacco brown with prominent clasping sheath (all of plant except head low now brown foliage); per. nerveless

in caespitose (as seems almost certain), per. with beak def. shorter than body

culm to 7½ in high, erect, very slender, smooth, striate but not angled, naked except ——x. Base of culm with few short lvs & brown (cannot decide whether "castaneous" or "dull pale" sheaths of former yr sheaths (base looks more like than it really is because of young shoots). Lvs. dark green, glabrous, edges smooth (a pers. slightly roughened at tip), firm, not involute, acuminate & grooved toward tip, blunt at very tip-

to 3½ in long × 2–2.5 mm wide. ♀ spike 8–12 mm long on filiform drooping peduncles. At top of culm a bract (blade no longer than infl.) sheaths a peduncle of ♀ spike & another uniconspecuous bract which ~~similarly~~ sheaths a peduncle ~~& bract~~ of a second ♀ spike & peduncle of the 1st spike (12 in 8 ♀ spikes at ~~the~~ top of culm there is 1 more sheathing bracts like 1st but smaller. Often there is also a ♀ spike with pedicel in sheath of bract about 2 cm (1 case 6.5 cm) below top of culm & sometimes the culm instead of being entirely naked bears this lower bract alone with ♀ spike ~~2~~ cm from it. ♀ spikelet few fld (12), loosely (but perc. def.) overlap. Per. smooth, brown, 3+ mm long, flattish below & rounded above, ~~1~~ ½ mm beaked, tip curved outward & somewhat downward. (30 × per. shows fine markings which could be called striations or seeds) Scales ½–¾ as long as per. def. to study (a.t.s.) seem very thin & to adhere to per., not around. R.B.K. thinks she remembers Carex (perhaps) with annulate prolif. spikes from same place 1928 but no record found 1930. Achene def. 3-sided, 1.7 mm long, grayish brown, dull & not quite smooth. Stigmas disappeared.

8-31-30 ? Scirpus pauciflorus Lightf.
Mouth of Buttle Blk

536

8-31-30 Euphrasia
prob. latifolia. EJ 7-16-30

8-31-30 Alchemilla pratensis F.W. Schmidt det
BvBII 264 Fl. Bridgeat mouth of Butter Blk.

8-31-30 Lycopodium complanatum L. det 57, BvBI 48
No Sp. Rd Highlands Camp Mt. Butter Blk mouth of James Gelé.
cfd L. obscurum.

534

8-31-30 Salix
No fl or fr. Rd to mouth of Butter Blk shortly west of little bridge on Butter Blk (not big bridge at mouth) no. side Rd (white ashing) Twigs quite glabrous, lvs lanceolate, oblanceolate-obovate, firm dark green above, very blue glaucous beneath, glabrous, acute to acuminate at apex, narrowed to base, toothed, no stipules. 10 ft tree like.

8-31-30 Salix
No fl or fr. Low shrub on so. side Butter Blk near mouth. Prob. lilae I of 8-20-30

535

8-31-30? Carex Wiederi Retz var. pumila Fernald det 246 nec Vill. C. — BvBI 457 Seems same as 8-20-30. Fl. Mouth of Butter Blk. Terminal spike all ♂ or ♂ above a few

2 spikes mostly crowded at tip of culm but sometimes another is borne low on culm x in 3 instances the lower perigynia bore small spikes (2 normal perigynia) from inside. None observed in case of the proliferating perigynia also bore achenes.

537

9-5-30 Festuca

Fr (not developing) Highlands camp (hybrid) Cfd Festuca ovina
8-31-30 Lvs flat firm involute, innovations extra vaginal (i.e. branches pierce thru sheath instead of lying along st. & issuing at top of sheath) Plant seems to be a very slender branching rootstock. Culm 15 in, geniculate (like 8-31-30), more slender, inflor same general expression. Lvs on sterile shoots short (1 in) which there were many making tuft in 2 of roots (tree) to 18 in, soft & drooping. Lemma 6 mm & awl 1 mm in awn.

538

9-5-30 Comandra livida Richards ♀ 350 BVBL 640
Fr. Col. by A. McIsaac (NRCKJ) when blueberrying behind Highlands Camp. To 7 in high. Never more than 2 peduncles to a st. Peduncles usually 1-fruited (1 case 4-fruited) but scars of others plainly visible. Original underground st (a sort of rhiz) dug up for 4 ft but could not determine on what plant parasitic. Associates: Kalmia angustifolia, Rubus Chamaemorus, Ledum groenlandicum, Chamaedaphne calyculata, Vaccinium pennsylvanicum, Myrica Gale.

538-a

9-5-30 Cyperaceae

Fl. H.P. Poss. Scirpus pauciflorus Lightf. G. Culms filiform v 25 ft. Stigmas Style 3-cleft. No bristles seen.

9-5-30 Mentha arvensis L. var Canadensis Briquet 9711 = M. canadensis L. BvBIII 152 Fl. H.P. Cfd with this MJ 8-31-30 dif in at. purple; lvs smaller, rounded at base v blunt to rounded at tip, hairs on at not confined to angles

9-5-30 Juncus militaris Bigel 9375 BvBI 499 Fl. Far side The Clennans Pond. Cfd J. canadensis J. Gay.

9-5-30 Scirpus occidentalis Clute (See 8-16-30) Fl. Redone 3x2 mm. v. Alternis a deae.

539

9-5-30 Sparganium diversifolium Graebner var acaule Fernald v Eames 969-S. acaule Rydb BvBI 75 Fl. N.P. sand spit at inlet.

540

9-6-30 ???

McClennans found superficially floating at edge of pond. Poss. seedling of N. amplifracta alvena Bland which grows in pond. Lvs rather similar in shape & veining but thin & translucent, crinkly on edges, to 1¾ x 1 in

541

9-6-30 ? Sparganium angustifolium Michx Fr. (unripe) McClennan's Pond. Lvs floating 30 in long x 4 mm wide. Thick & rounded (hardly laeeled) below, flat but furrowed above. Upper side green & smooth, lower side grayish & pitted looking from reticulations. Culm 6 in single. Bracts gold def (perhaps "not conspicuous") scarious fully margin, (a) 2 heads 3: the lower axillary pedunculed, the other 2 sessile supraxillary. (b) 2 heads 2: the lower pedunculed & pod) axillary the ped. is adnate to st fr ½ in above axil, the other sessile & supraxillary. Heads (a.t.s.) 1.5 cm wide. Stigma 1 mm, Beak but looks more oblong than "linear" Achene pale from microscopic dots at base, tapers to straight beak pod. ½ line. Could this be S. angustifolium Michx & G 69, B & B II 98. Cfd with S. minimum Fries (9-13-30) & not the same. achenes glossy plumper beaded. beaked & not rib at base. Bracts hardly dilated at back & without the scarious fully margin.

9-6-30 Potamogeton epihydrus Raf. G 72, B & B I 97 Fr. McClennan's Pond. 20. end. Fr. def. keeled.

9-6-30 Vaccinium Vitis-Idaea ~~L~~ var minus
Lodd ♀ 641. = Vitis-Idaea — Britton B V B II 699 Fr.
Col by R. Mc. Isaac when blueberrying at some
distance behind Camp. Highlands Pond.

9-6-30 Amelanchier oligocarpa Roem ♀ 460 - A. Bar-
traniana Roem B V B II 298 Fr. Mc Clellans Pond at
point just south of end of path across marsh ♀ & ♂ P.

9-6-30 Rosa nitida
Fr. Mc Clellans Pond. Usually sepals still on fr. but in one
case had disappeared.

9-6-30 Gaylussacia dumosa T. & G 638, B V B II 696 Fr.
Marsh near flashets on path to Mc Clellans Pond.
(See 8-28-29 when no fr.)

542
9-6-30 Lycopodium inundatum L. ♀ 56, B V B I 44
Young sps. Far side Mc Clennans Pond. (See 8-28-29)

9-6-30 Aster nemoralis. Ait ♀ 816 B V B II 433 Fl. Margin
of Mc Clennans Pond. with his crowded, rugose and

with revolute margins. Lf in shade on far side of pond with last thinner hardly rugose, less crowded & not at all revolute margined.

9-6-30 Carex rostrata Stokes G 355 Bv BI 434 Fr shaded here for but no achenes maturing. Far side McClennan's Pond. Like Lasiocarpa except that perigynia are more yellow than green. Culm not very stout (Culms 1.5-2 mm below infl. sm solid but flattish & rough below the 2 heads (mostly 2)

9-6-30 ? Carex rostrata Stokes var utriculata Bailey G 356 Fr mc in C. — Bv BI 434. Fr mc Achenes maturing. McClennan's Pond east side (turning to left at end of path across marsh) Like above except perigynia longer & tapering to beak, 2 spikes longer & culm slightly rough below infl.

543
9-6-30 " Potamogeton Oakesianus Robbins # 72, Bv BI 22, 76 Fr McClennan's Pond so end. Cf. P. natans & P. Similar but lvs about half as large, fewer nerved, less cordate at base & top, petiole not similarly "flexuous". Submersed lvs capillary & stiff.

9-6-30 Potamogeton [illegible]
Fr. N.P. [illegible] the common Clasping leaf P. amœna
8-23-29

544

9-10-30 Aster

Fl. Corner of field just west of Sandy Downie's. 3+ ft high very lfy & much branched abv. with numerous fls. Heads 3/4-7/8 in diam. rays 3/8 in almost white (look white at a distance) involucre 6 mm high. bracts linear-subabt 8 series mostly appressed, the outer dark green at tips, the inner light green, all def. nerved to tips, acute. Achenes (a+s) with thick ribs & upward pointing pubescence esp on ribs. Branches & upper part of stem (some leaf) ridged & pubescent in lines. Lvs lanceolate some ones 3 1/2 x 1 3/8 in. upper ones much smaller, all sessile or slightly clasping, smooth to touch (the with a few minute hairs abv) very rough on margins, mostly entire (but middles ones with few teeth) narrowed to base & apex. Branches & peduncles lfy.

545

9-10-30 Aster

Fl. On bluff about 20 ft above mouth of Highland (in thicket of spruce) Only upper lvs remain these auriculate clasping thick, glabrous abv, rough & with sharp distant teeth on edges, glabrous except for def. pub. midrib beneath. Branches short-corymbose subtending lvs bearing broad lvs & 1-2 heads. Heads 1 in diam, rays 5/8 in long Blue tinged lavender. Bracts firmes (perhaps broader) than abv. Achenes pubescent

8/14

Sec. A pubescent & var oligocephalus Fernald

546

9-10-30 Aster

Fl. Av road 20. from ferry-main house mouth of Highlands. Prob. like ones found on Bluff.

547

9-10-30 Aster

Fl. Edge of Highlands Bl near mouth Prob same as the 2 above but not as much like them as they are like each other. Lvs less thick, bracts less broad & rays more straggly (like A. puniceus) (All three 3 of A. puniceus & more have its linear spreading bracts. altho lvs. suggest A. puniceus). Achenes pubescent.

548

9-10-30 Lycopodium Selago L. G 55. B VI E 48. Sp V

pumniparous buds. Rd to Highlands Mouth about ¼ mile ½ way at place where hills as-w of H. Camp are plainly visible.

549

9-10-30 Lycopodium complanatum L. G 57 B VI E 47. Ldg fr. Near Highlands Mouth along Rd. 1st fr. specimens found to date in N Fla.

9-10-30 Pteris aquilina L. G 36 = Pteridium — com Rubus B VI E 32. No sp. in H to Highlands Mouth.

9-10-30 Juncus filiformis L. #273, B V B I 467 Fr. Highlands
about 20 ft. perp. borne. 28 in high. Upper sheath loose
red. Near J. effusus but with similar
filiform appendage

9-10-30 Juncus effusus L. #273. B V B I 467 Fr. Near
above.

9-10-30 Brassica juncea Coss. & #28, B V B II 193 Fl & fr.
Frequent in grain fields mouth of Highlands Blk.
(See 7-12-29)

9-10-30 Hordeum vulgare L. B M C.P 117. Fr. with above.

9-10-30 Polygonum Convolvulus L. #362 = Tiniaria —
Webb & Moq. B V B I 674. Fr. With above

9-10-30 Botrychium ternatum Sw. var. subaefolium
D.C. Eaton #49 = B. matricariae Spreng B V B I 5. Pd 6 mouth
of Highlands not far from Lycopodium Selago. Sp. 4 in
high. Sterile blade 1½ in broad. Dissection next yes.
but found well & distinctly formed & the beginnings

Ja 2nd & 3rd bud.

9-10-30 Spenopholis pallens Scribn var major Scribn
#138 nec. S. — B&B I 244 Fl. Edge of Highlands Blowout mouth.

550

9-10-30 Epilobium
Fl (white) & fr. Marsh on east side 3rd shortly above ferry house Highlands Mouth. Perhaps same as 8-10-30 tapering much branched & fly, the rest simple with less strongly ascending, pedicelled at top. Coma bright white Seeds with def. thoracic keel, handly papillae (70x) 3 mm long. Some have delicate transverse wrinkles & small glabrous, obovate hyal tip any greatly ill of E. lineare Mubl B&B II 393 = E. linearis Raf 596

9-10-30 Pyrus americana DC 459 = Sorbus — Marsh B&B II 387 Fr. By Dennis (vacant house no. side) fid.

9-10-30 Pyrus sitchensis Piper #459 see Sorbus scopulina Greene B&B #387 Path just behind Highlands Camp. Cfl with above.

551
9-10-30 Potamogeton perfoliatus
Fr. H.P. This is common clasping lvd P. sanctus
8-23-29

9-13-30 Stellaria borealis Bigel G 381 = Alsine — Britton
B v B # 46 Fr. Rd from Highlands Camp to Glen Falls west
side rd as outlet Little pond (Same spot as 8-31-29.
Seed valves smooth. Many branched buds or short
branches in axils.

9-18-30 Carex flava L. G 245 B v B I 430. Fr. Marsh east
of camp. Cfl with below.

9-13-30 Carex Wederi Retz var pumila Fernald G 346 inc
in C. — B v B I 429 Edge of H.P. shortly east of Camp. Fr.

9-13-30 Carex vesicata Stokes var utriculata Bailey G
356 Fr. Left bank of inlet to H.P.

552
9-13-30 Scirpus pauciflorus Lightf G 189 B v B I 337
Fr. Marsh east of Highlands Camp. Sec 5-10025-30

9-13-30 Sparganium minimum Fries ✓ 69 B v BII 74 Fr. Marsh east of Highlands Camp top of S. angustifolium (9-6-30)

9-13-30 Rubus triflorus Richards ✓ 487 B v BII 378 Rooffor fr. H. P. Trailing st. (young) 6 ft long with long (to 8 in.) naked runners (? or roots not yet found for bld) at nodes.

9-13-30 Calamagrostis canadensis Beauv ✓ 135 B v B ± 209 Fr. Fertile culms with short erect intravaginal branches about middle. Steels etc. more machedly 20.

9-13-30. Aster
Fr. Edge of fields & ft bank at or inlet. Like A. from Sandy Dominica 9-10-30.

555 Scott Mears 1931
9-14-30
"Tree moss" i.e. thin lichen or fungus from trunks near school house Highlands Pond
White wool dyed to rich brown (sample enclosed) by boiling with specimen 2 hrs. Local information 2 cups "moss" "should be "well boiled" & strained out before wool is added to be boiled" "alum tinge". Addition of salt or vinegar suggested. Will not dye cotton or linen.

N.B. Specimens of 9-17 and 9-21-30 studied only hurriedly.

9-17-30 Brassica arvensis Ktze. #4258
Fr. Allen McIsaac's house. Crabbes Station
Pods smooth, knotty; seeds not pale as dense
for B. alba (#5).

9-17-30 Polygonum convolvulus L. #362
Fr. with above.

#554)
9-21-30 Stellaria uliginosa Murr. #351 Flvfr
St. John's R.R. track west of station.

9-21-30 Coronopus didymus Sm #4216 BVH50
= Carara didyma Britton BvBII (See ill BvH) Fl
vfr. with above.

9-21-30 Galeopsis Ladanum L. #699 BVH369
(see ill) Flvfr. with above.

(#555)
9-21-30 Linaria
Fl. With above. common Yfin G. can be nothing
but L. canadensis Dumont #720 but as #
is much branched see L. repens Mill BvN 3rd ed

9-21-20 Linaria vulgaris Hill G 719 Fl. St Johns waste places. For cf. with above.

9-21-20 ? Matricaria inodora L. G 846 (sec ill) BVH 246 Fl v/fr. St. Johns R.R. track west of station

9-21-20 ? Artemisia vulgaris L. G 849. BVH 5-38 (sec ill) Fl v/fr. With above.

Should be 238 ?

9-21-20 Centaurea nigra L. G 861. BVH 264 (sec ill) Fl v/fr. With above

9-21-20 Bidens frondosa L. G 840 Fl v/fr. With above

9-21-20 ? Specularia marina ~~G 379~~ Grieb G 378 Fl v/fr. Island - pub. Seeds 1/2 mm or perhaps more. Separate as long as pod.

6-16-37 Newfoundland

Mouths of Baraclois Brook over bluff to mouth of Robinson's Brook, up road to Carlyville Station & back via

V - not listed in previous years.

Eriophorum Callitrix Cham. G196. Young fr.
Rhododendron canadense B.S.P. G631 Fl
Ledum groenlandicum Oeder G630 Fl.
Sisyrinchium angustifolium Mill G302 Fl.
Veronica serpyllifolia L. G728 Fl.
Linnaea borealis L. var americana Rehder G757 Fl.
Vaccinium Oxycoccos L. G641 Fl.
Trientalis americana Pursh G646 Fl.
Cornus canadensis L. G624 Bud.
Phegopteris Dryopteris Fée G35 young Sp.
Maianthemum canadense Desf G291 Fl.
Smilacina trifolia Desf. G291 Fl. Very common at mouth of Robinson's, left bank, meadow.
Menyanthes trifoliata L. G660 Fl. with Smilacina
Caltha palustris L. G404 Fl & young fr.
Kalmia angustifolia L. G693 Bud.
Equisetum palustre L. G52 Nonfr.
Equisetum arvense L. G.52 Sterile stem. No doubt of identity this R.B.K seems in previous yrs. in Nfld to have been uncertain about this species
Mimulus moschatus Dougl. G724 Fl.
Radicula Nasturtium-aquaticum Britton & Rendle G43 Fl.
Hieracium Hederacea Trevisan G697 Fl
Ranunculus acris L. G398 Fl.
Ranunculus repens L. G397 Fl.

Ranunculus Cymbalaria Pursh G. 394 Fl.
Sagina procumbens L. G. 379 Fl.
Cerastium vulgatum L. G. 383 Fl.
Capsella Bursa-pastoris Medic G. 426 Fl.
Alnus incana Moench G. 337 Voss fl. (1st season
Iris setosa Pall., var canadensis Foster G. 300 Fl.
Pinguicula vulgaris L. G. 739 Fl.
Potentilla Anserina L. G. 484 Fl.
Potentilla tridentata Ait G. 483 Fl.
Carum Carvi L. ~~Fl~~ G. 614 Fl.
Primula mistassinica Michx G. 644. Fl.
(Malea beautiful above 5-31-37)
Drata incana L. (i.e. sameas Drata #1, #2 #3 of
July 3, 10 & 17, 1929 which M.L.F. called D. incana.
Could he have meant Berteia — DC. G. 423.) Fl.

Viola pallens Brainerd G. 584 Fl.
Viola cucullata Ait G. 581 Fl.

6-18-27 Newfoundland
Mouth of Barachois Brook, right bank, upstream to Highway Bridge, hence highway & back to camp via Richard Cokis House.

Vaccinium pennsylvanicum Lam. G639 Fl.
Kalmia polifolia Wang G633 Fl.
Clintonia borealis Raf G291 Bud.
Geum rivale L. G486 Fl.
Claytonia caroliniana Michx G388 Fl & yg fr.
Coptis trifolia Salisb. G404 Fl.
Prunus pennsylvanica L.f. G498 Fl.
Aralia nudicaulis L. G606 Fl.
Ribes oxyacanthoides L. G451 No fl or fr.
Onoclea sensibilis L. G45 Steril fronds & old fr.
Onoclea Struthiopteris Hoffm. G45 " " " " "
Osmunda Cinnamomea L. G47 Steril & fertile fronds
Asplenium Filix-femina Bernh G40 Fertile fronds.
? Aspidium spinulosum Sw. G43 " "
? " " var dilatatum Hook G43 "
Veronica lumifusa Dickson G728 Fl.
Arenaria lateriflora L. G380 Fl.
Stellaria graminea L. G382 Bud
Rubus triflorus Richards G487 Fl.
Chiogenes hispidula T&G. G637 No fl or fr.
Iris versicolor L. G299 Fl. 1st season.
Trifolium pratense L. G509 Fl.
Luzula campestris DC. var. multiflora Celak G279 Fl & fr.
Carex aurea Nutt G332 young fr.
Acer spicatum Lam G558 Fl.

6-20-37

Myrica Gale L. G 329 ♂ fls. Near Robinson's Brook.
Sambucus racemosa L. Fl. - " " G 761
Hiopsuris vulgaris L. G 605 Fl. Near Robinsons Brook
Rubus Chamaemorus L. G 487 Fl. Marsh near Elsie Cookes.
Phegopteris polypodioides Fee G 35. Rd bet. bridges! No sp.
Viola labradorica Schrank G 586 Fl. Bill Cookes woods
Rumex Acetosella L. G 357 Fl. Baraclois Cabin

Polypodium vulgare G 34 Brought by Elsie Cook from a few miles up Baraclois Brk. (See 7-15-29)

906

6-20-37 Ranunculus
Fl. Left side Robinson's Blk near end of rd (formerly to ford now to bridge) in almost stagnant water under & little bridge. Same as ## 476 of 8-10-30 which M.L.F. called R. Gmelini DC. See Rhodora Oct. 1931.
R.B.K., unguided, would have thought it R. Purshii, Richards G 395, Bo BM 105. Fl 8-10 mm diam. Petals yellow, 4 or 5, hardly longer than the very yellowish sepals. Petals 5×3½ mm with cup like scale at base. 1+ by 1 mm (hence looking disproportionately large). Achenes (in early fl) almost 1¾ mm of which more than ½ of length is slender tip.

L

6-20-37 Galium labradoricum Wiegand G 750, Bo BM 264 Fl. (Found in moss about Sarracenia purpurea brought by Elsie Cooke from about 4 miles up the Barador 4 in Lingle, Lvs in 4's, reflexed, linear, obtuse, 7 × ±1½ mm, scabrous on margin & mid-rib. Corolla white, 4 lobed, 2-2½ mm about as long as leaves. Very like ill & dense except that at (20×) is very slightly scabrous (if that is an objection. See keys)

907

6-22-37 Ranunculus
(Same as #906) Fl. Rt. bank of Baraelois Brook in stagnant pool just above Highway Bridge, N.B. This locus v one near Robinsons Brook are on road which formerly ran between the fords (now between the bridges)

6-22-37 Mouth of Baraelois Brook to Castigillo Station. West along track to marshes at end of bridge, down rt. bank of Baraelois Bk to pool & marsh at end of Highway Bridge v continuing back to camp.

Chamaedaphne calyculata Moench. G 636, B of B II 687. Conifers fallen. Marsh opp. the Corbei Rd.
Prunella vulgaris L. G 698. Fl. R.R. track
~~Eriophorum angustifolium Roth G 197, B of B I 325 Fl. & fr. Marsh at R.R. bridge~~
Scirpus hudsonianus Fernald G 190 = Eriophorum alpinum B of B I 323 Fl. Marsh at R.R. bridge
Triglochin palustris L. G 80 Fl. Marsh at R.R. bridge
Galium triflorum Michx G 756 Bud " " "
Potentilla fruticosa L. G. 482. Remains of fr. "
? Aspidium cristatum Sw. G 42 Sterile fronds "
Cardamine pennsylvanicum Muhl. G 436 Fl & adv. fr. Pool by Highway bridge
Circaea alpina L. G 602 Bud End of Highway bridge

6-22-37

Nymphaea advena Ait G 390, BvBIII 78
Fl. Pt. Pleasant end of Highway Bridge. Pos. var.
variegata Fernald since the 3 outer sepals
are brownish purple inside. Stigmas 9-11 rayed

Ranunculus Flammula L. var. filiformis Hook
G 395 = R. reptans L. BvBIII 107 Fl. Pt. banks of
Barachois perhaps bet. the 2 bridges.

?? Lycopus americanus Muhl G 710, BvBIII 148 Very
young bud. Prob near pool at end of Highway bridge.
Very like ill (BvB.) Base of petioles joined by line of
long hairs, white hairs (evident to eye)

6-23-37 Glyceria nervata Trin G. 159 Fl. 1 Barachois Camp

908

6-26-37 Ranunculus
(Same as 906 from same pool)

6-26-37 Between Barachois Camp & Robinsons Bridge
Stellaria borealis Bigel G 381 (Same locus as 7-6-29) Fl.
Mitella nuda L. G 448 Fl
Veronica americana Schwein G 737 Early fl.

6-28-37 Spruce Brook northward along R.R 1½ miles to watering Chute (see 7-16-30)

Cypripedium hirsutum Mill G 307	Fl
Streptopus roseus Michx G 292	Emipe fr.
Epigaea repens L. G 636	Emipe fr.
Viburnum pauciflorum Raf. G 759	" "
Pyrus sitchensis Piper G 459	Fl
Cornus stolonifera Michx G 624	Fl
Ribes lacustre Poir G 452	Emipe fr
Ribes prostratum L'Her G 452	" "
Pyrola minor L. G 628	Fl
Sanicula marilandica L. G 610	Bud
Euphrasia (same as 7-16-30)	Fl
Habenaria dilatata Gray G 308	Fl
Epilobium adenocaulon Hausk G 597	Flo fr.
Viburnum Opulus L. var americanum Ait G 759	Fl
Viburnum Cassinoides L. G 760	Bud
Nemopanthus mucronata Trel G 558	Emipe fr.
Alnus crispa Pursh G 336	" "
Osmunda regalis L. G 46	Sp.
Osmunda Claytoniana L. G 46	Sp
Senecio aureus L. G 854	Fl
Potentilla monspeliensis L. G 482	Fl
Geum macrophyllum Willd G 485	Flo fr.
Equisetum fluviatile L. G 52	Sp.
Equisetum sylvaticum L. G 67	No sp.
Triglochin maritima L. G 80	Flo fr.
Vicia Cracca L. G 536	Fl
Thalictrum polygamum Muhl G 400	Fl

6-28-37 cont.

Leontodon autumnalis L. G 863 Fl & fr.

Prenanthes ~~serpentaria Elliott~~ virginiana L. G 498 Fl & young fr.

Galium labradoricum Wiegand G 750, B&B III 264 Fl. In marsh at water shute (see 6-20-37)

Selaginella selaginoides Link G 57, B&B I 49 Fr. In marsh at water shute. Exactly like ill. Macrosporas & microsporas studied (20x) [Also 7-5-37 Dump Pool]

909

7-3-37 Valeriana septentrionalis Rydb (G), B&B III 286. Fl & adv. fr. Dump pool (on path from cabin towards upper pool) One spec. only found & hence not carefully studied before pressing. Seems surely a V. edulis very like ill. No stamens visible. Style def. exserted

7-3-37 Trillium cernuum L. G 294, B&B I 536 Young fr Dump Pool.

7-3-37 Listera auriculata Wiegand G 816 = Opleps — Nonna B&B I 568 Fl. with above.

7-5-37 Marsh just behind Dumps Pool Camp.

Listera cordata R.Br. G 316 Fl.
Habenaria obturata Richards G 309 Fl
Habenaria clavellata Sprengel G 309 Bud
Habenaria hyperborea R.Br. G 308 Fl & adv. fr.
Sts 6-12 in high; the tall ones twice as thick through as the short ones so that plants look quite different as they grow.
Habenaria dilatata Gray G 308 Bud & fl.
Sts 7-23 in high; the tall ones very stout, the low ones relatively slender.
Corallorhiza trifida Chatelain G 317 Fl but withered & badly eaten. Perianth greenish yellow.
[Arethusa, Calypso & Pogonia all missing]
Tofieldia glutinosa Pers G 283 = Triantha — Baker Bv BI 486 Fl. Ident. seems sure but infl so compact it looks almost like an umbel as plant is seen growing

Saxifraga aizoides L G 446 = Lepatasea — Haw Bv BII 217 Fl Abundant in spots at edge of little water-ways.

?Coniocelinum chinense BSP G 622, Bv BII 636 Fl & very young fr. Ident as sure as poss. a.t.s. [Ident verified later]

Andromeda glaucophylla Link G 637 Young fr.
Empetrum nigrum L. G 551 No fl or fr.
Scirpus caespitosus L. G 190 Fr.
Sarracenia purpurea L. G 446 Fl

7-5-37 cont.

Equisetum scirpoides Michx G 54. B&B I 42 Old fr. Growing in sphagnum with cranberries. No doubt ident. Tho the 2 lateral ridges on teeth less distinct than B&B suggestor heads of fr (3 mm high) are partly covered by uppermost teeth

Rynchospora alba Vahl G 200 Fl

Campanula rotundifolia L. G 769 Fl 1st season

?? Pyrus melanocarpa Willd G 459 Part flowering but [??] not forming. Evs not having enough for other species [illegible] 7-14-37 Fl. Many accessories bushes often less than 1 ft high from a horizontal stem beneath surface of moss and rooting along its length

Senecio Balsamitae Mull G 854 Fl.

Acer rubrum L. G 558, B&B II 495 No flo fr

7-6-37 Marsh across river from Dumpsford

Arethusa bulbosa L. G 312 Fl

Calopogon pulchellus R. Br. G 312 Fl

Habenaria blephariglottis Torr G 310 Fl

Gaylussacia dumosa T. & G. G 638 Fl

Eriophorum virginicum L. G 199 Fl.

(see desc. 8-1-29 but now stamens 1 to each fl. Bristles white to tawny.

Eriophorum callitrix Cham G 196 Fl.

7-6-37 Scheuchzeria palustris L. G 80, BvBI 93
Adv. fr. Masak across river from Dung Pk.

7-6-37 Scirpus subterminalis Torr G 190, BvBI 329 Fl. Bud
with above in little pool near end of Chuchy's bluff. Identity
seems sure even at this early stage [8-14-37 Fr.]

7-6-37 Juniperus Communis L. var montana Ait G 67
J. sibirica Burgsd. BvBI 66 Unripe Fr. with above. Lvs 6-9 mm
by 1.5 mm. (Perhaps var. depressa Pursh.) Lvs. def. curved
but not so much as to be "subappressed".

7-6-37 Drosera longifolia L. G 438 #1 = D. intermedia Hayne
BvBII 303 Fl & old fr. With above. N.B. Lvs stand more
nearly upright than do lvs of D. rotundifolia

7-6-37 Drosera rotundifolia L. G 440 Fl. With above.
7-6-37 Melampyrum lineare Lam G 733 Fl " "
7-6-37 Carex pauciflora Lightf. G 282 Unripe fr. With above.

7-9-37 Near Dump Pool Cabin.

Ranunculus abortivus L. G 396 young fr.
Ranunculus recurvatus Poir G 397 Fl & adv. fr.
Galium triflorum Michx G 750 Fl & adv. fr.
Satureja vulgaris Fritsch G 706 Fl
Anemone riparia Fernald G 402 Fl.
Orobanche uniflora L. G 740 Fl.
Monotropa uniflora L. G 629 Early fl.
Pyrola asarifolia Michx G 629 Fl Common Dump Pool area.
Pyrola secunda L. G 629 Early fl. very common at D.P.
Pyrola minor L. G 628 just past flowering. 2 specs only seen. One path from Cabin to Upper D. P.
Moneses uniflora Gray G 628 Fl.
Juncus filiformis L. G 273 Fl & adv. fr.
Equisetum variegatum Schleich G 54 Sp. in Marsh back of Cabin
Lonicera caerulea L. var. villosa T. & G. G 755 Young fr. " " "
Taxus canadensis Marsh G 62. No fls or fr. See 8-7-37 Fr.
Corylus rostrata Ait G 333 No fls or fr.

7-10-37 Path from Dump Pool Cabin to R.R and just a little northward along R.R.
Utricularia cornuta Michx G 738 Fl. Along R.R.
Epilobium latifolium L. (See B & B II 590), Fl Edge of river
Erigeron hyssopifolius Michx G 817 Fl " " "
Cirsium muticum Michx G 858 Fl
Monotropa Hypopitys L. G 630 Fl. (See B & B II 675. Petals def. pubescent above. Stigma "retrorsely bearded" as in ill. of M. lanuginosa Nutt.) Fl pale yellow

7-10-37 Continued

Streptopus amplexifolius DC. G 292 Unique fr.
Vaccinium macrocarpon Ait G 641 Fl Along R.R.
Pogonia ophioglossoides Ker G 311 Fl " "
N.B. 7-6-37 Arethusa v Calopogon } found growing
7-10-37 " " Pogonia } in proximity.
Thus far R.B.K. has never seen these 3 otherwise Combined.

Eriophorum viridi-carinatum Fernald G 197
B & B I 325 Fr. in marshy spot beside path with
Cicuta maculata.

Eriophorum angustifolium Roth G 197 B & B I 325
Ditch by R.R. just north of Dumps Pool station. Young fr.

Here begins the a new dispensation on the subject
of these 2 species which clarifies difficulties of 1937 &
many invalidate conclusions of previous years.
In general appearance E.a. is the stouter stiffer more
sedgy-looking plant with larger & more handsome heads.
In E.a. lvs stiff & erect dry tend to bend at about middle.
In E. v. lvs less stiff (more like grass) & can be deflexed
abruptly at base of blade
E.a. has dark sheaths to involucral lvs and dark girdles to tops
of sheaths of upper et. lvs (some of lower ones too.)
(R.B.K. is assuming that this accords with Gs desc.
& that B & B are misleading)
E.v. has no dark girdles but R.B.K. suspects that some
varieties specimens with dark girdles on involucral sheaths

7-10-37 sheaths only were also E.a.

E.a. has stouter pedicels (pedicles) smooth to touch, though (20 x) slightly roughened on edges.

E.v. has more delicate pedicels (pedicles), slightly rough to touch (20)

E.a. has heads 3½-3½ cm. long, bright white

E.v. " " less than 2½ cm long & only about ½ as fat when full looking as E.a., Bristles almost as white (spec. of previous days now thought to be E.v. have withered and are now a dull, dirty white)

E.a. scales with brownish tinges. Mid-nerve can be traced usually, to tip but not as distinctly as in E.v. esp. in outer scales where the difference seems most marked.

E.a. has no ripe fr. while E.v. has which suggests E.v. may be the earlier flowering.

E.a. no anther found to measure

E.v. one " " " " = 1 mm long

[7-12-37 Mersh across river from Dump Hill Cabin

E.a. scales thin & membranous (G) for considerable distance at tip the nerve getting more & less lost

E.v. has tip firm with nerve making a sort of green keel

These differences true for spec. R.B.K. had identified by lvs & general appearance.

E.a. fruiting heads tend to look pinkish at base (because of scales)

E.v. " " " " " greenish " (" " ")

E.v. col. 7-12-37 has lvs. rather stouter than E.v. of 7-10-37.

On E.a. fruiting heads sometimes smaller & less handsome than 7-10-37 because achenes injured while immature by insects.

7-12-37 Marsh across river from Dump Pt. Q
Stems marked * collected in the marsh & pond about ½ mile down stream from point opposite D. P. Cabin. The others collected en route or in marsh.

*Micrastylis unifolia BSP G 318 Fl. Frequent in places.

* Scirpus occidentalis Chase G 192 Unripe fr. (Prob. the same as S. validus Vahl is a possibility

*Betula nana L. G. BoBI 612 No fl or fr [7-28-37 Staments]

*? Potamogeton natans L. G 72 No fl. or fr.

Carex exilis Dewey G 222 Fr. ♂ spikes only common as well as spikes with fem to many mostly all ♀ spikelets

Carex oligosperma Michx G 249 BoBI 436 Unripe fr.
(Traced in G. Very like ill. G and BiB)

* Carex filiformis L. G 248 Fr unripe. (Gives effect of waving grass & prairie to parts of the marsh)

* Eriocaulon articulatum Morong G 361 Fl.
(N.B. Petals ♀ fls bear conspicuous black spot. Petals ♂ fls perhaps bear inconspicuous gland but not black)

[?] * Eriophorum tenellum Nutt G 196 Fl. & fr {But are 8-14-37 E. virginicum}
of both E. virginicum L. Fl.
E. callitrix Cham Fr.
E. angustifolium Roth Fl
E. viridi-carinatum Fernald Fr.
All collected 7-12-37 in same marsh.

7-12-87 Continued

*? Juncus brevicaudatus Fernald G 274 Fl very young fr. but ident prob. correct. [Prob. was J. canadensis see No 20 and 7-28-37

Polystichum Braunii Fée G 41. Sp. Dump Pool Cabin.

(* Utricularia intermedia Hayne G 737 No flo fr) See 7-28-37

910

*

No flo fr. Lf v general look suggest Thalictrum alpinum L.
(G) B v B II 2 & 18

7-15-37 Listera convallarioides Torr G 316 = Opheys — W. F. Wight B v B I 567 Fl. Dump Pool Cabin (at crossing of 1st rivulet on path from spring towards cabin). Carefully cfd with L. auriculata (Col. 7-12-37 at landing rock across river) In L.c. lvs v fls more yellowish than in L.a lvs v fls really green. In L.c. lvs more broadly oval-ovate than in L.a. The little green part of the anther which lies over the pollen sacs v remains after they are detached; in L.c. is elongated to at least twice its width; in L.a it is hardly longer than wide. N.B. Fls v L.a much better in G than in B v B. esp. as to base of lip with the lateral teeth in same plane as rest of lip not projecting upwards as B v B ill suggests

7-17-37 Little Marsh behind Dump Pond Cabin.

Lobelia Kalmii L. G 769 Fl. Many stems 1-fld.
Spiranthes Romanzoffiana Cham G 314 Fl

Habenaria dilatata Gray var media Ames G 308 Fl. Flagueneas in H. hyperborea but bifolate bractless spike) as dilated at base as in H. d. and pollen disks strap-shaped as in H. d. not small & orbicular as in H. hy. [Shape of stigma not carefully observed]

? Prenanthes ~~trifoliolata~~ trifoliolata Fernald G 871 Fl. R.B.H. practically sure of this identification
Sanguisorba canadensis L. G 494 Fl
Rhinanthus Crista-galli L. G 935 Fl & adv. fr.
Angelica atropurpurea L. G 622 Fl & young fr.
Pyrus americana D.C. G 459 No fl. & fr.
Deschampsia caespitosa Beauv. G 146 Adv. fr.
{ Carex Oederi Retz G 345 Fr
or C. flava L. " }
Carex trisperma Dewey G 225. Fl.
Carex leptalea Wahlenb. G 232 Unripe fr.
? Carex capillaris L. var elongata Olney G 246 fine. in C—— L. B & BI 411 Fr.

7-19-37 Calamagrostis canadensis Beauv. var acuminata Vasey G135 Early fr. In front of D.P. Cabin

7-19-37 Carex gracillima Schwein G 234, BoBI 407 Fr. In front of D.P. Cabin.

7-19-37 Carex tribuloides Wahlenb. var. reducta Bailey G211 = C. projecta Mackenzie BoBI 381 Adv. fr. In front of D.P. Cabin.

7-19-37 Bromus ciliatus L. G 164 Bud. In front of D.P. Cabin
7-19-37 Carex stipata Muhl G228 Fl " " " " "
7-19-37 ? Carex flava L. G245 (or perhaps var rectirostra Gandin) Fr. Achene hardbut, as perigynia not easily detachable, perhaps not fully ripe Fr not yellow and beaks, tho strongly deflexed not spreading in all directions (BoBI 430). Lvs 3.5mm wide.

7-20-37 Along R.R. northward from Dump Pond Flag Stop unless otherwise noted.

Anthoxanthum odoratum L. G 121 Fr.

Carex stellulata Good. G 222 = C. Leersii Willd. BoBI 398 Fr. On path to Dump Pond just opposite freight shed.

? Carex paupercula Michx. var. irrigua Fernald G 239 inc. in C. —— Michx BoBI 417 Fr.

7-20-37 Continued

? Carex limosa L. G239, BvBI 416 Young fr.

As remembered when studied (7-31) these & the preceding spec. were Cl. east side of R.R. in bog like where ditch goes under track just beyond first bit of scrub (Rhodora etc) & were thought to be the same.

Differences obvious to eye when studied are:

C.l. glaucous.	Cp. not glaucous
C.l. lowest bract as dec & ill	C.p. lowest bract as dec.
C.l. pedicel & 1st spike appears like culm.	C.p. pedicels & 1st spike longer & more delicate & slender than culm
C.l. perigynia tapered to very short beak-like beak.	C.p. perigynia rounded at apex & with not tapering beak.

But C.l. lvs. not involute but tend to be more conduplicate than in C.p. C.l. lvs. to 2.5 mm wide which agree with BvB, not with G.

N.B. Scales on C.p. mostly fallen but seem to fit dec.

Scales on C.l. broad & acute or obtuse cuspidate (BvB) & only slightly longer than perigynia.

In C.l. & spikes more inclined to be erect than in C.p. (but C.l. not yet ripe)

[C.l. 8-14-37 stoloniferous, not at all tufted. With Carex gynocrates & Juncus stygius.

Juncus brevicaudatus Fernald G274. Cf. with J. canadensis of 7-28-37 Differences very evident.

7-20-37 Continued

Deschampsia flexuosa Trin G140 (N.B. paleae longatae ♂ raceme blind upper palea very short & inconspicuous) cf'd with D. caespitosa ♂ 7-17-37.

Poa triflora Gilib G136 (Correct except that panicle is not drooping)
Agrostis hyemalis BSP G132
Agrostis alba L. var vulgaris Thurb G132 (ligule 2mm)
Cinna latifolia Griseb. G137. (Empale three nerved)
Juncus effusus L. G273
? " " var compactus Lejeune & Courtois
Scirpus rubrotinctus Fernald G193 Fr.
Scirpus atrocinctus Fernald G195 Fr.
? Rynchospora fusca Ait f. G200 Fr. [Prob. correct see 9-11-37 same locus.
Carex trisperma Dewey var Billingsii Knight G225 Fr. Lvs ½ mm ∘ appear setaceous to eye. Spikes sessile. cf'd with C.t. ♂ 7-17-37 with lvs. flat ∘ almost 2mm wide
9/11

Calamagrostis Pickeringii Gray C134 Fr.
Phleum pratense L. G129
Trifolium pratense L. G509
Trifolium hybridum L. G509 } N.B. Sinus bet. 2
Trifolium repens L G509 } upper calyx teeth (about 60°) in T. repens acutely angled, in T. hybridum broadly rounded.

Achillea Millefolium L. G845
Lycopodium clavatum LG55 clavatum

7-20-37 continued

Pteris aquilina L. G 36. No sporesbut leaf and indusium beginning to show.

Prunella vulgaris L. G 698 On path thru woods. Plants with the usual blue fls and others with pure white fls. Otherwise no difference

Silene latifolia Britton & Rendle G 386, B&BII 64 Fl. Near Mrs. Grant-Sutter's house at Dumps Pond Station. Mrs. G. says it has appeared there only recently.

7-23-37 Juncus articulatus L. G 277 D.P. Cabin. At edge of river

7-24-37 Carex brunnescens Poir. G 224, B&BI 375 Fr. D.P. Cabin just east of door.

7-24-37 Poa trivialis L. G 157, B&BI 285 Fr. D.P. by Cabin & river.

7-24-37 ?? Carex stricta Lam. G 231, B&BI 420. Fl (falling) Dumps Pond growing in clumps ? C. cinita var grandis at river edge (about ¼ way from Cabin to the upper pond) I don't question Chiefly because Cabin is not sharp or rough enough. & is not rough enough

7-24-37 enough. Otherwise fits desc adequately v seems to fit no other desc. Culms 17-in high, slender stiff. Blades v pilose stiffly erect, as this appeared. Lower green S. on culm is about 3 in above base. Below that are 2-3 short dead lower bladeless sheaths. Below them at base of culm abundant thread-like remains of old sheaths. (These show only after not collected v best after it dries somewhat.) Perigynia glaucous-green above, paler toward base, the 4-6 nerves on each face showing well only as it dries. Beak more abrupt than ill (B&B) [See 8-19-37 for the possibility that this was C. lenticularis Michx.

7-24-37 ? Carex Gordeniorii J. Gay G 231; B&BI 422 Dump Pool (very near ? C. stricta above) Identif prob correct as infl fits desc. Questioned because (a) perigynia seems shining rather than dull; (b) plant seems cespitose rather than stoloniferous; and (c) lvs green rather than "glaucous-blue." But no other probabilities seem correct. Some achenes almost ripe but most seem not likely to develope. Stigmas 2. Achene lenticular v thick.

7-24-37 Carex striata L. var ovata Boott G 293, = C. striatiformis Britton B&BI 418 Fr. Dump Pool. (At entrance to upper pool). Unmistakable!
[~~7-24-37 R.P. to ed. no. 9 D.P. Station where C. paupercula, Erk 7-26-37~~] This 9-11 spec cfl with very dried remains of D.P. Not the same

7-24-37 Carex tenella Schkuhr G 225 = C. disperma Dewey BvBI 372. In woods at end of path to upper pool.

7-24-37 ? Carex vesicaria L. G 255; BvBI 438 Dump Pool almost at end of path to upper pool. Ident questioned only because not listed from Mich. Sheaths of pistillate glumes (fully 7 mm) v. visible & lvs (5-6 mm) all are against the pass. & var. monile. N.B. Upper ♀ spikes often ♂ at tip. [Lower sheaths become filamentous as they dry]

7-24-37 ? Carex crinita Lam var grypandra Schwein & Tor. G 230 = C. grypandra Schwein BvBI 425 River edge at end of path to upper Dump Pool valley about half way along path. (See 8-20-30 when perh was the same.) ♂ spikes drooping; pistillate inflated. ♂ sheaths rough hairy would seem to establish identity. But scales of ♀ fls abruptly awned (BvBI) Note also achene with a deep inward fold on one edge very like Gaill ≡ 560 p. 356 (of C. Tuckermani). Culms longer (often much longer than lvs) but over topped by the ♂ bracts. Some culms bear no ♂ spikes but bear a few ♂ float stps of ♀ spikes. Other culms bear 2 ♂ spikes (in one instance a ♂ spike has a few ♀ float base. [N.B. 8-21-37 Not all achenes show the "inward fold" mentioned above]

(7-24-37 Juncus filiformis L. G 373. Ft. Dump Pool) See 7-9-37

7-24-37 Trisetum melicoides Vasey G 139 Fl. D.P.

7-24-37 Agrostis Canina L. G 133, BvBI 205 Path. bet. Cabin & upper Dump Pool. Panicle (c. 4 cm.) spreading and plant mistaken for A. hyemalis the branches shorter & less diffuse, but the best awn is unmistakable even to eye, projecting 1 mm or more beyond tip of fl. Cells short & even the upper blades only a little more than 1 mm wide at most. Ligule 1-2 mm. long. [See 8-7-37

7-24-37 ? Agrostis perennans Tuckerm G 133, BvBI 206 (or poss A. Schweinitzii Trin BvBI 206 which prob is inc. in A. perennans G 133) This is the weak lax grass, decumbent, with its ample silvery-green panicle (fls not yet open) still included at base in upper l. sheath. Strongest at first a form of early stage of A. hyemalis but the longer & wider (to 3½ mm) lvs. give it a quieted fl. look seems to preclude this. Also panicle lvs. branches divided down to or even below middle & spikelets more numerous. It very likely could look much like BvBi silly A. perennans when green. Spikelets of this and A. hyemalis and A. canina (except for awn) show no marked differences to R.B.K. Ligule fully 3 mm or more. (Too long for A. Schweinitzii acc. to BvB) as not differing in this from A. hyemalis Both of above cf with A. alba & A. hyemalis coll 7-24-37 [7-27-37 ? Spec.] ? A. perennans & A. hyemalis

between cabin & river of fl. L was much the same in length, breadth & general appearance (all 2-3 mm wide). But panicle very dif. ? A. p. (just beginning to fl.) is still all A. p. (B & B) with more & shorter & less naked branches than A. l. capsin lowest whorl. Spikelets (2 or 3) show traces of purple color but panicle still silvery-green rather than wine-brown (like A. l. & A. c.) in general effect.

7-27-37 Rhamnus alnifolia L'Her. G 561 Fr. Path bet. spring & D.P. Cabin.

7-28-37 Marsh across river from dump Port. Same region as 7-12-37.

912 Utricularia intermedia Hayne G 787 Fl

913 ? Utricularia minor L. G 787, B & B III 228 Young fr & bud. L was not "bristly serrulate" as in U. intermedia Scape very slender, 11 in long, bears 10 fls (the lowest 3½ in above base of scape. Pedicels very slender, ± 5 mm long, slow tendency to be "recurved" in fr. Cannot tell if fr is really forming properly tho' corolla (if one existed) fallen. Appearance of fl. in bud & lobes almost ready to open. Lower lip 4 mm long. No spur. Calyx lobes 1-1½ mm long. L was fewer, finer & shorter

7-28-37 continued

shorter than in V. intermedia. Specimens not as carefully studied as though it had not been kept for previous but ident. almost certain.

Muhlenbergia racemosa BSP G127, BoBI 186 Bailey.

?? Carex scirpoides Schkuhr G223 = C. interior, Bailey, B. of B. 377
Fr. not ripening (some badly infested with smut) as ident imperf. Heads alike & sessile. Position of ♂ fls not discernable. Stigmas 2.

One ripe fr. found. Using Gleason's assuming ♂ fls borne at base or scattered (this seems more likely & besides no sp. in the "♂ fls at top" group seems likely to fit the case) we are led to C. scirpoides Schkuhr G223 Perigynia with thin margins, spongy at base, horizontally spreading or reflexed, spikes 2-several, perigynia broadest at base & rounded beaked, more than ½ as broad as long (i.e. somewhat more than 1.5 mm wide x 3 mm long), dark brown; beak not nearly equalling body. Plant slender; infl 1 cm long; lvs 1-3 mm wide (scales seem to vary from "blunt" to at least acute). N.B. No bracts visible & underleaf base. spikes so small & so close together that at first culms seems to have one terminal spike only. Lvs channeled not flat. Lvs often much shorter than culm.

Note method of growth as the' they bear culms & sterile shoots came from a point (about 1 inch) above

base of one of last yrs. shoots.

7-28-37 Continued

A.

Carex rostrata Stokes G 255, B&BI 434 Valley form

Scirpus paucifloras Lightf. G 189, B&BI 337 Fr.
Ident. not questioned.

Juncus Canadensis J. Gay G 274, B&BI 480 Adv. fr.
Plants showing a wide range in shape & infl.
Some approaching ill J. C.; others more like ill J. brevicaudatus & some (15 in high & slender) with only 3 heads. R.B.K has (in 1937) been considering these to be J. brevicaudatus but now decides all are J. canadensis with infl. what G 264 would call not "well developed."
Fls are "greenish or light brown" not "deep brown" G *
Perianth 3-3½ mm long not 2½ mm G
" "acuta" and pointed not "acute" G
" only ±1 mm shorter than capsules which this unripe seem grown to full size
N.B. Seeds (a.t.s.) fully 2 mm overall (slightly less than 1 mm without tails).
Capsules 3 sided (at least as they dry) and probably would be desc. as "abruptly short pointed."
[These spec. ckd with a J. 7-20-37 which turns out to be J. brevicaudatus without doubt]

[* Whatever G. means by "deep brown" R.B.K 8-19-37 finds perianths in anthesis pale to green (at least sometimes)]

7-28-37 Continued

Eupatoriumpurpureum L. var maculatum Darl
G 782 = E. maculatum L. B&BIII 356 Fl

8-1-37 Galium asperellum Mich. G 750 Fr.
Commonall around Dumpy Pool Cabin.

8-1-37 Ranunculus repens L. G 397, B&BII 113. Fr.
In wet ditch bit just behind Dumpy Pool Cabin. In site plant looks too large in all respects for R. repens. but when compared with specimens (familiar aspect) from pasture mounds spring there seems no a strong likelihood they are same species. Plant 2 ft & more from base to tip. Nos reclining (but poss. only because region has been trampled & worked in) No runners found but suspicious signs of "rooting at nodes". Bas lvs dark green & lvs large to 5 in broad (basal not lvs) but in shape, cutting & hairiness very suggestive of R. repens. St & petioles with spreading hairs as in R. r. Peduncles furrowed & receptacles hairy as in R. r. The heads of fr. (all achenes maturing) globose about 9 mm high by almost as wide (they look large) Achenes (green in color & falling as they ripen) 4 mm from tip of beak to base & which beak is 1 mm; 2½ mm. broad. Achenes very like B&B of R. r. (even more than does the achene of the plant known to be R. r. which is slightly more nearly circular in outline & has beak

a trifle slender.

The only other poss. seem R. pennsylvanicus L. f. and R. Macounii Britton both of which offer difficulties as to shape of lvs, shape of calyx & receptacle

Receptacle of D.P. plant 7 mm overall x 3 mm at thickest part (in about the middle) is certainly not "globose" No chance to compare with the known R.x. as its heads bear matured only a few carpels.

8-4-37 Poa pratensis L. G 156, BBI 256 Fl. Path from D.P. Cabin to spring. Running rootstocks clear of culms, leave no question. W.B. ligules to 2 mm long. v finely hairy.

8-4-37 Marsh behind Dump Pool Cabin

Juncus alpinus Vill G 277
Agropyron repens L. G 166

9/14 Carex

Fr. the mossy bank just where little brook emerges at upper end of nearly swampy ponds (Only place seen in the vicinity. Plainly stoloniferous, the rootstock slender (no thicker than the culms) with the new plants arising at intervals of 1-2 more inches. Culms to 15 in high, slender, erect, smooth (except ped. of 1st spike

8-4-87 ♂ spikes. Culms almost naked but at very base are dead lvs (perhaps last seasons) similar to the lvs on the new (sterile) shoots. These lvs to 10 or more inches high × 2 mm wide, bright green, glabrous, smooth, flat.

♂ spikes 1 and entirely ♂ (in all the 10 spec. Cl.) 11-13 mm long, conspicuous on a rough stalk-like peduncle 4-5 cm. ♀ spikes 3 distant, the lowest often below middle of culm. (In 2 spec. which seem to have only 2 ♀ spikes, a third on a filiform pedunculate 4-6 in long issues from base of culm. N.B. All other spec may have had similar basal spikes as these could be easily destroyed in collecting.) Bracts all sheathing with short ligule-like blades. Lowest (culm) bract has sheath 2-2½ cm + blade 1-2 cm. Blades all shorter than spikes. Sheaths ± dead-grass color but as some blades have same dead effect prob. this color not significant as key. ♀ spikes on filiform peduncles equal or only slightly longer than sheaths so that spikes are erect or strongly ascending not at all drooping. ♀ spikes subtly ± 1 cm long (in one case 2 cm long), loosely 6-12 (one of the latter) flowered. Slightly by the fact that many achenes are not maturing. Scales ± oval or elliptical, obtuse (or lowest acute but never sharp-pointed or awn-tipped) with a broad green mid-rib & broad brown hyaline edges, ½ as long as mature perigynia.

Perigynia 5 mm long all, peduncles (with no flat

sides) tapered to base v (a trifle more abruptly to the 1 mm long beak which bends slightly outward. Perigynia now greenish brown shading to green at base and towards beak, glabrous, nerved (20x) but nerves not conspicuous. Tips of beak oblique and in some cases seems minutely 2-toothed, at least it looks ± jagged v uneven, not neatly v definitely entire. Perigynia tough, not tight on achene but not at all inflated. Stigmas 3. Achene trigonous, 2 mm x 1½ mm, minutely papillose (20x)
Best guess is C. vaginata Tausch. G 339 (was 334), B v B I 399
Culm v apices very like ill (esp G). Perigynia less abruptly beaked than ill (G) v more rotund than ill (B v B)
Scales very like ill B v B.

8-4-37 Carex polygama Schkuhr G 333 = C. Buxbaumii Wahl B v B I 419 Fl. Marsh behind D.P. Cabin.

8-7-37 Habenaria orbiculata Torr. G 309 = Lysias — Rydb. B v B I 555. Fl. Path D.P. Cabin to R.R. near junction with path down to Lower D.P.

8-7-37 Epipactis repens Crantz var ophioides Eaton AA 1 G 315 = Peramium ophioides Rydb. B v B I 569 Fl. near above v elsewhere along path.

8-7-37 Edge of st. bank of Harry's Brook between D.P. Cabin & Lower D.P. numerous otherwise noted.

Salix lucida Muhl G 321 Nofl. fr.

~~Acta~~ rubra Willd forma neglecta Robinson G 4008 Fr. Actaea

Cystopteris bulbifera Bernh G 43 Bulbs & sp.

Rumex crispus L. G 355, BvBI 657

Rumex obtusifolius L. G 356, BvBI 658

Hieracium Canadense Michx G 874

? Solidago hispida Muhl G 789

Solidago macrophylla Pursh G 790 In woods.

? Solidago Canadensis L. G 795, BvBIII 393

? Solidago rugosa Mill G 794, BvBIII 390 Near Cabin

Aster junciformis L. G 814, BvBIII 419 Near Cabin

915 Carex

In fine gravel on river bank. Achenes not developed (perhaps never will) but careful study ~~to~~ shows stigmas 2. ♂ spikes 1 (in one case a second, smaller one below) ~~its~~ slender ped. ~~which~~ usually overtopping the uppermost ♀ spikes Utricles laev G 209, perigyna is shining (as much so as C. vesicaria – from memory) and nerveless. Lvs flat, 3 mm wide; ♀ spikes 1 cm or less by 4-5 mm wide. This brings us to #179 or var. i.e. C. paxtilis L. G 254, BvBI 432 or C. miliaris Michx or C. rhomalea Mackenzie, BvBI 432-3. (But lvs not so strongly involute) This ident. not satisfying, but not that

other leads seem less so: Scales acute or rather blunt v abortive thus; perigynia (not at all inflated etc) and perigynia not at all compressed but plump v inflated. × Perigynia a light, bright green (some now brownish toward the tip, about 2.3 × mm long & which about .8 mm × is a definite beak, with 2 definite teeth. × Scales with hyaline border, brown with green center. Lvs basal & sterile shoots overtop culm but lvs on culms shorter than culm. Lvs pers & somewhat nodulose. Uppermost ♀ spike sessile with often an short setaceous bract, lower ♀ spike (when present) short pedunculed, erect with a bract which is sheathless, erect or divergent v reclined almost to ♂ tip of ♂ spike.

Culms about 10 in high, rather sharp edged, smooth below but roughened below infl. lvs rough on edges toward tip. Basal sheaths reddish v becoming filamentose. Short scales at short intervals on running root stocks making a dense clump. [See 8-19-37 ? C. miliaris Michx and 9-11-37

× See 8-19-37 for data on measuring fr.

8-7-37 continued

Phalaris arundinacea L. G 1311

Poa compressa L. G155, BuBI 259. Fl. On down-river tip of island at D.P. One plant only found with infl not well developed. No doubt of identity. Rootstock creeping. St. def flattened. St v lvs. def. blunt. Spikelets 3 mm long. lemmas with no webby hairs at base

8-7-37 continued

base and glabrous except slightly hairy on mid-rib toward base. Lvs short & narrow (under 2 mm) leaving much of culm naked makes a very slim effect although uppermost lf. is towards top of culm.

??? Calamagrostis hyperborea Lange G 135, B.&S.T. 218. Fl. adv. fr. Culms to 30 in., stiff, rough especially uppermost lf. Panicle contracted making somewhat effect of C. Pickeringii. (N.B. Panicle not purplish in effect, the glumes (20x) show touches of purple. Effect is fresh color with the green of branches showing through). The stout hairs on is straight when fl. is dissected but tends slightly on drying, as long as lemma. Callus hairs fully 2/3-3/4 as long as lemma and not interrupted at back of lemma (as in C.P.)

C. lacustris Nash B&B 208 is a possibility Lvs def. rough on upper surface with prominent veins; less rough beneath. Blades 2-3 mm wide, flat when collected, becoming somewhat involute later. Epiblastus 3 mm long. Lemma scabrous. R.B.K. does not know what they "culms tufted".

[Cfd with C.P. of 8-14-37 from marsh across river from Dumps. Pod. Less narrower than C.P. Looks & stiff very similar but differences of fl. very definite as done above]

[Cfd with C.P. of 8-19-37 and C. canadensis from near D.P. Cabin. Prob. it is (a) a queer C. c. or (b) a X bet. the two. Having contracted panicle, stout habit, awn (this not as bent) & rough lemma of C.P. and hairs & color of stiff of C.c.

Carry the color of stiff to Campbell at this date

? Agrostis canina L. G133, BvBI 305. In gravel at upstream end of island at Dumps Fork Cabin (See 7-24-37 when this point was visited & just possibly specimen of that date was collected here.) General effect of ssp very like B. Bill of A. borealis and spikelets are 3 mm long (excluding awn which projects 1 mm. Do consider Arbrealis Hartm as possibility. But note at each edge of base of lemma the callus bears a small [perhaps .3-.4 mm long but distinct (20x)] tuft of hairs such as R.B.K. ~~has~~ noted on an Agrostis × ~~sp~~ & does not find on A. alba col. 8/7 or 8/10 or on A. hyemalis (in front of cabin 8/10) but which now is discovered on ? A. perennans (in front of cabin 8/10 same as 8 spec. col. 7/24.)
Palea minute. Plant seems undoubtedly an Agrosti
[× For Agrostis with similar hairs see 7-24-30 # 398
& 8-8-30 # 446

Aster umbellatus Mill G 814 = Doellingeria umbellata Ness. BvBIII 443

Aster foliaceus Lindl @, BvBIII 422. Evidently same as 8-5 & 6 & 9-29 and 7-24-30. Plants 4 in high (in gravel near water's edge) to 20 in high on bank. The narrow lfly outer bracts usually very evident. Stems reddish or green, & differing in amount of pubescence.

8-7-37 continued 9782

? Eupatorium purpureum L. var. foliosum Farwell
ffh with var. maculatum 8-14-37 which
is the form common in these parts; as follows

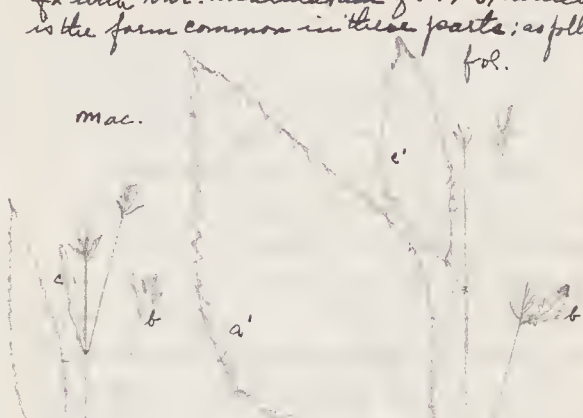

Diagram 2 infl
to show relative size of lvs.
All lvs with sharper tips than
shown here.

a. 9cm×1.8cm, petiole short
b. No lf.
c. 3×.3cm
Lvs thick, rugose
crenate-dentate
Stem purple
Infl dull, purple

a' 14×7 cm, petiole longer
b' 3×1 cm.
c' 9×2 cm.
Lvs thin, not rugose
coarsely serrate.
St. green
Infl paler & pinkish

Pubescence somewhat more conspicuous on mac than on fol. and infl more compact in comparison with fol. than this diagram shows.
mac is the form remembered as familiar in other places.

8-7-37 continued

Anaphalis margaritacea B&H. G822 woods path Fl

Taxus canadensis Marsh G62, B&BI67 woods path Fr

ao 7.

8-13-37 (& succeeding days ± until Sept 15)

Picea canadensis B.S.P G65 B&BI61

Picea rubra Dietr G65 = P. rubens Sargent B&BI61

Picea mariana B.S.P G65, B&BI61

Charlie points out the 3 species (white, red & black) all very near Cabin at Dumpy Pond & collects branches. These agree with diag. i.e. white, glabrous; red & black pubescent (20X)

Note: "Red" has a reddish tinge to bark & its fine short twigs give no solicitude of lanceau look to foliage or tree.

In "Black" the branches toward tips are (not the new growth) are blackish and as Charlie says the "buds" (i.e. ends of branches) are "more curly" than in the "White"

R.B.K. observes that the "Black" is a more gaunt-looking tree than the "White".

8-14-37 Marsh across river from Dump Pond.

916 ? Thalictrum alpinum L. (G), B&BII 118 Old infl. with fragments of fr., strongly corroborating this ident. Close inspection of many plants 7-Band again 7-28 revealed no sign of flowering. Today's search brought to light only this bit of evidence.

Carex gynocrates Wormsk. G 222, B&BI 361
♀ spikes in whiels fr. unipse or not forming. Stolons; culm (2 in high), lvs, the solitary, terminal ± spike; stigmas 2: leave no doubt as to identity. Perigynia like ill (G); not like ill (B&B)
Near head of long pond at beginning of swale.

917 ? Juncus stygius L. var. americanus Buchenau G 278 inc. in ♂. — L. B&BI 475 Fr. with abov. Ident almost sure. Queried only because the very slender lf-blades are certainly nodulose if not septate (this would agree with B&B though not with G); stem, this looking naked above the middle has 2 inconspicuous acicular lfs (about ¾ in long) within about 1¾ in of base of infl.; bract about as long as infl. (as desc G, not exceeding flrs as desc. of ill B&B). Lvs not channeled at least at sts. lvs seem rather to be laterally flattened. Heads usually 1 (one case 2), flrs 1-3.

8-14-37 cont

Perianth 5 mm. capsule 7 mm. seed 3 mm over all (2 which body is 1+ mm; tails broadish & flattish but very definite (20×). Stamens long, easily almost (to anthers 1 mm at least of tips of perianth) & dangling from bet. perianth parts now when capsule ripe. Lf. also the best def. ligula but R.B.K not sure it could be called auricled (B&B) Anther ½ mm (a slightly less) long (See 9-7-37 for locus)

Juncus pelocarpus Mey G 237, B&BI 476 Fl but infl almost entirely 2 "modified lvs." St. red below, plants growing in puddles.

Lycopodium annotinum L. G 56, B&BI 46 Old infl. This is common in marsh across river at D.P. & has been watched all summer

Xyris montana Ries G 262, B&BI 451 Fl

Calamagrostis Pickeringii Gray G 134, B&BI 208. Plants (several) collected to compare with Calamagrostis ? 8-7-37 (which see). One of these had some spikelets with 2 fls neither of which as far as R.B.K could see was maturing fr. Query: Isn't possible for Calamagrostis to have a second rudimentary fl?

8-14-37 Cont.

Aster nemoralis Ait G 816, BvBIII 432 Fl
St 6-8 in high, simple; heads one as seems usual hereabouts.

Aster radula Ait. G 805, BvBIII 425 Fl

?? Solidago uniliguleta Porter G 793, BvBIII 392 Fl
Only S. found so far in the marsh across river from D.P.
R.B.K. suspects this is same as has been suspected of being S. uniliguleta in 1929 & 1930 but now wonders if plants then (1929 & 30) that took be S. uliginosa were really diff. from this.

Cladium mariscoides Torr G 201 = Mariscus — Kuntze BvBI 348 Fl. Near Juncus stygius v elsewhere. Exactly like desc. v little ill (BvB). Plants blanched earlier in same region & at first confused with Rynchospora fusca. Fertile fl. this not fully blown is advanced enough to prove it has no bristles. 5 to 27 in high.

Eriophorum virginicum L. G 197, BvBI 326 Fl.
The familiar heads (dense glomerule, 15 mm high, bristles tawny) leave no doubt of identity. R.B.K. now suspects a spec. like these were mistaken for E. tenellum on 7-13-37 because these have (a) leaves narrow (2.5 mm at widest part); (b) uppermost lf-blade 8 cm long; (c) longest bract of infl 2.5 cm long, very

8-17-37 cont.
narrow, erect (not at all divergent) with 1-2 similar but slighter v inconspicuous. This all would give the plant when in flower much the look of E. tenellum rather than E. virginicum.

919
8-17-37 Chelone glabra L. G723, BoBIII 181 Fl. Brought by Charlie V.R.B.K. from Path just opp. Dump Pool Flag Stp.

920
8-18-37 Rynchospora Capillacea Tor. G201, BoBI 847 Fr. Marsh behind Dump Pool Cabin (lime stone in parts) So far (8-4 & 8-18 found only in one place). Exactly like dec. except never more than 10cm. & any barbs on bristles 20 x & scarce that (20x) R.B.K. cannot tell which way they point. Achene almost 4 mm over all (2 which stipe is 1 mm & beak is 1 mm.

8-19-37 R.R. track Dump Pool — Delano Pool.

Danthonia spicata Beauv. G142, BoBI 220 Fr
Ligules ciliate (esp. lower ones) with tuft & narrow tan edges.

Impatiens biflora Walt G560 Fl.
Lysimachia terrestris B.S.P. G645, BoBII 912 Fl & bulblets.
Galium trifidum L. G749, BoBIII 264 Fl v unripe fr.
? Mentha arvensis L. G911, BoBIII 152 Fl v unripe fr.
Cr. Post pass var. canadensis

8-14-37 continued

Lycopus uniflorus Michx G 709, BvBIII 447 Fr, adv. fr. v stolons.

Carex paupercula Michx (n var) G 238, BvBI 417 Fr. Ditch by R.R. about 1/4 mile north of Island Pond Station. Cfd with C. limosa L. (8-14-37). Same differences as noted 7-20-37. In addition now noted:
C.l. stoloniferous not tufted C.p. tufted
C.p. sometimes with ♀ fl at tip ♂ spikes
Note also C.p.: ♀ spikes show signs of having had ♂ fls a few ♂ fl at base in some cases.
C.p. scales mostly ♂ fallen; none awned as in ill (B.v.B.) but all tapered to subulate tips; a few hardly longer than perigynia, others to 1/2 again as long as perigynia.
[See 7-14-30 # 351 & 352 which seem likely to have been the same as spec of 7-20 & 8-14-37]
[9-11-37 ? C. paupercula (n var) same locus as 7-20-37 Assumed when col. to be C.p. But perigynia are now dark purplish brown. (Comparison with dead remains of C. atrata L. var rotata Bott shows shape of perigynia different). In the 2 culms collected, terminal spike has ♀ fl at tip and the other spikes seem all to have had one or two ♂ fl at base.

8-19-37 Continued

Cartalia odorata Woodville v Wood. G 391, B&RII 79 Fr.

Juncus balticus Willd. var. littoralis Englm G 392 -
J. balticus Willd B&RI 468 Fr.
Juncus nodosus L. G 395, B&RI 478 Fr.
Juncus tenuis Willd G 390. B&RI 470 Fr.

621 Juncus articulatus L. G 397, B&RI 477 Unripe fr. Bog hole on east side of R.R. slightly ~~west~~ south of Dump Port Station Seems to agree with descr. with spec. on river bank in front of D.P. Cabin except for perianth pale green & (b) stems freely rooting at nodes (not mentioned in descriptions) R.B.K cannot make it agree with descr. of ill. of J. bulbosus. Infl. of same spreading form as J. art. only more so than in many spec. found (quite as much as in ills. Standard.

Eleocharis acicularis R&S. G 183, B&RI 315 Fr.
With above. Spikelet 3 mm long. Achene 1 mm high overall with tubercle very small. Stigmas 3, transverse striations distinct (20x) and of Find help in identification. In many spikelets no fr. maturing.

8-19-37 continued

? Eleocharis palustris R.S. G 183, B.B.I 314 with E. acicularis. Past flowering but no fr. spreading. St. 12-18 in. high. Terete & split (open) seems (at least somewhat) septate. Sclerot almost certain. Spikelet (a.t.s.) lobes about diam of culm.

~~Collected~~

Callitriche palustris L. G 550, B.B.I 478 with abov. young fr. ?
Sparganium diversifolium Graebner var acaule Fernald v Ames G 69 = S. acaule Rydb B.B.I 74 Ad. fr. with above.

Glyceria Canadensis Trin G 158 = Paniculata — Kuntze B.B.I 263

Poa annua L. G 155

Epilobium angustifolium L. G 596 Fl & fr.

Elephrasia americana Wettst. G 733 Fl & fr.

? Carex saxatilis L. var. miliaris Bailey G 254 = C. miliaris Michx B.B.I 431. Fl. Bog hole on east side of R.R. shortly south of Dumps Rest Station. This seems surely same as * 915 of 8-7-37 with which cfd. Only a few ripe fr. found (on severed culms collected) Perigynia plump but close fitting over achene (not inflated), almost 3 mm long (by about 2.5 mm wide) of which about .5 mm is beak which is emarginate rather than toothed. Achene pale (i.l. mostly flesh color), broadly obovoid 2 mm long x 1.7 mm wide x 1 mm

thick (This thickness & the thick rounded edges make it look unexpectedly plump.
Culms to 18 in [See 9-11-37

8-19-37?? Carex lenticularis Michx G 231, B&B I 422 Fr.
wide above (bank may have been "gravelly or sandy")
Acc. to Gilsey p 209 this must fall in Nos. 66-71. and
with the long-overtopping bracts strongly suggests
ill. (G) (ill B&B. not very helpful) though ♀ spikes are
relatively more slender (2-3 mm wide) than ill
but agreeing well enough with descr (ie "2.5-4 mm") Culm
lvs. not as long as culm (usually reach ± to base of infl.
lvs on sterile shoots & the bracts much overtopping
culms giving the clumps a very lfy appearance
when growing.
The other best guesses would be:
C. aquatilis Wahl. where ♀ spikes are thicker & perigynia
nerveless (G) & ♂ spikes 2-3 (B&B.
or C. stricta Lam. where bracts are evidently not con-
spicuously overtopping (acc B. & B. "sometimes equalling
the culm") Spec. as collected offer no conclusive
evidence about "lowest sheaths prominently fibrillose".
Culm slender, sharp angled, smooth to infl &
somewhat roughened just below infl.
R.B.K. now thinks she brought a culm like this (Lycknose)
from other side of river one day (not studied) and also
that the plant of 7-24-37 ? C. stricta may have been
this (comparison now inadequate but gives no proof
to the contrary).

8-19-37 (C. lenticularis continued) One char. against this ident is that 3d spike is stalked (as much as in ill B&B. or as much as in Gdell & C. tuida

922

9-7-37? Thalictrum alpinum L. (G), B&B II 118 Fr. Near Same locus as 9-12 & 8-14-37 (between two ponds)

923

9-7-37? Juncus stygius L. var. americanus Buchenau G 278 inc in J. stygius L. B&B I 475 Fr. Same locus as 8-14-37 i.e. R.B.K's "long Pond" at head / swale almost to 1st spruce before arriving at "Thalictrum Spruce". Seen no where else

924

9-7-37? Carex limosa L. G 239, B&B I 416 Fl. Scattered between head of "Long Pond" & Juncus stygius where collected & studied 8-14-37.

925

9-7-37 Cladium mariscoides Torr G 301 - Mariscus — Kuntze B&B I 348 Fl. (See 8-14-37) Not common but not rare around pools which stretch beyond R.B.K's "Long Pond". R.B.K has not knowingly collected it elsewhere in Nfld. Fr. not maturing well, the best of those discovered being ± atrophied & spongy at base so not all all resembling ill (G) & style in all cases still persistent. Rhiz. stocks about as thick as lower part of culm, creeping, scaley. Culms almost (or quite) leafless, hollow,

fly to top. Lvs. channeled except toward tips. Sterile shoots (from the abruptly upturned tips) rootstock with elongated scales at base (or better loose bladeless sheaths) then lvs channeled at base but soon becoming terete & very like culms (Perhaps these are sterile culms & the origen of the dried remains found at base of fertile culms.) Spikelets with one perfect fl and an imperfect fl. below as dese (Gand B&B.)

926

9/2/37 Gramineae

Fl & almost ripe fr. A few steps from Juncus stygius (& further from "pond" and also with Thalictrum "between two ponds") not noticed elsewhere. General aspect grassy and suggests an Agrostis but fl. very different. Rootstock slender creeping. Culms very slender, wiry ± decumbent at base, then erect. ± 12 in high, glabrous & smooth up to infl (about that point, rough) Infl 1-5 in long. Branches solitary (never 2 from same node), 1½ in or less long. These primary branches with simple or (esp. the lower ones) with compound branchlets. Fl. fits in no Tribe as well as in Agrostideae. (1 fl, articulated above glumes) & in this Tribe in no genus as well as Sporobolus except that lemma seems 3-nerved (1 nerve down center the other 2 near the edges). Glumes unequal, the longer less than (or up to) 1 mm; both ovate, acute, purplish, nerving Spikelet 1½ mm. Lemma 1½ mm, oval, rounded at apex. Palea almost as long (when fl partly open it seems longer

9-7-37 longe, 3 nerved, blunt at apex. Stamens 3. Grain almost spherical. Sheaths loose keeled, edges thin & white. Sheaths overlapping at base. Sht. naked above middle. Ligule 3/4 mm (perhaps is hairy on back) Blades 1 mm wide, flat, (or ± conduplicate) not more than 1-2 in long. Branches spreading at angle of about 60°. ~~caminately~~ scabrous-tuberculate (20x) = 3. — Schib & Merr G 131 Best guess is Sporobolus uniflorus Muhl G 131, BvB I 198 Infl. suggests ill BvB except that it is more simple & ligulate in effect and lemma not acuminate as ill evidence (BvB). But (G) says "obtuse" & the ill (G) would fit very well. 9-11-37 Collected with roots of Carex Michauxiana

927

9-7-37 Carex gynocrates Wormsk G 222, BvB I 361 Same locus as 8-14-37 Poor specimens because fr. not maturing.

9-10-37 Aspidium Cristatum Sw. G 42 = Dryopteris cristata Gray BvB I 19 Steriles & fertile fronds Dump Pool where path from Cabin enters the little marsh behind. (Several plants observed there all summer this is specimen R.B.K. thot A.C. at Highlands Pond 8-23-29 & 8-8-30. See Clute pp 139-140 & ill. R.B.K. does not understand "Frond conspicuously narrowed at the base" G 41 (key) is character not mentioned in BvB or Clute. Sterile from 9.5 cm at widest, 8.5 cm at base Fertile frond 10 cm at widest; 8 cm at base.

9-11-37 Carex Michauxiana Boeckl. G 54 = C. abacta Bailey B&BI 431 Fr (falling). Mrs. Grant-Suttie's ice-pond in woods east of R.R. near Dumps Port Station (only place seen in 1937) Undoubtedly the same as 7-27 and 8-25-30.

9-11-37 Scirpus arvensis L. G 865, B&BIII 316 Fl (fr not maturing) Old garden site near Mrs. Grant-Suttie's. Must be this with bright yellow flo (color of dandelions) in heads 1½ in across. But not (Contrary to G & B&B) peduncles and involucre glabrous and (contrary to B&B) involucres only 5/8 in high. Lvs as all (B&B) clasping with rounded lobes

928

9-11-37 ? Carex saxatilis L. var. miliaris Bailey G 254 = C. miliaria Mielx B&BI 431 Fr. Pond with C. Michauxiana Seems surely the same as #915 of 8-7-37 and agree of 8-17-37 with both of which Cf'd. Achenes pearly to brownish. Perigynia fairly loosely thatched 8-19 but not really inflated. Of 3 culms collected, 2 had 2 spikes.

9-11-37 Rynchospora fusca Ait. G 200 = R. — Ait B&BI 344. Fr. With C. Michauxiana and also north of Dumps Port Station at edges of ponds on east side of R.R. in region where collected 7-20-37. Cf'd with R. alba from near by & with Cladium 9-17-37.

9-11-37 Continued

In ice pond with Carex Muehlenbergiana
Hypericum virginicum L. G575 Fr
Lobelia Dortmanna L. G770 Pods empty

In old garden site with Lonelea arvensis
Spergula arvensis L. G379 Flo fr.
Senecio vulgaris L. G852 Flo fr
Stellaria media Cyrill G383 Flo fr.
Plantago major L. G745 Fr

In hay fields across brook.
Plantago lanceolata L. G745 Fl
Brassica arvensis Ktze G428 Flo pods bulged fr.

At Satchem dock
Matricaria suaveolens Buchenau G847 Flo fr.
Polygonum Persicaria L. G361 Flo fr.

Gnaphalium uliginosum L. G823 R.R. track.